

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Slough			Left	0.52
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/26/2018 - 4/26/2018			
DWR Inspector	Dave Torres			
Accompanied By	David Julian DWR			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	04/26/2018 04/26/2018	Dave Torres

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD0150_01_s_2013_4				
Comment Code					
Inspector Comment					
This LMA has the updated O&M manuals for their district.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD0150_01_s_2013_5				
Comment Code					
Inspector Comment					
This LMA has adequate amount of flood fighting materials in a centralized location.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				
DWR ID	DWR_RD0150_01_s_2013_6				
Comment Code					
Inspector Comment					
The crew of this LMA had flood fighting training from DWR.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	04/26/2018 04/26/2018	Dave Torres

LM Start	0.17	Rating **	M	Issue No.	1
LM End	0.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331620 °	38.331620 °
				-121.580736 °	-121.580736 °
DWR ID	DWR_RD0150_01_s_2018_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_15_1_20180430_00003.jpg



Vegetation landside looking west.

LM Start	0.17	Rating **	M	Issue No.	7
LM End	0.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331620 °	38.331620 °
				-121.580736 °	-121.580736 °
DWR ID	DWR_RD0150_01_s_2018_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.44	Rating **	M	Issue No.	2
LM End	0.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.328555 °	38.328020 °
				-121.577544 °	-121.576693 °
DWR ID	DWR_RD0150_01_s_2016_2				
Comment Code					
Inspector Comment					
2013 - Old toe repair unraveling. Bridge at upstream end of site. 2015: No observed changes. [2015 Site ID: STR_28-4_R]					

Photo 1 of 2 : SP_2018_RD0150_15_2_20180301_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	04/26/2018 04/26/2018	Dave Torres

LM Start	0.44	Rating **	M	Issue No.	2 (cont)	
LM End	0.49	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2015 USACE Erosion Survey, DRAFT			38.328555 °		38.328020 °
				-121.577544 °		-121.576693 °
DWR ID	DWR_RD0150_01_s_2016_2					
Comment Code						
Inspector Comment						
2013 - Old toe repair unraveling. Bridge at upstream end of site. 2015: No observed changes. [2015 Site ID: STR_28-4_R]						

Photo 2 of 2 : SP_2018_RD0150_15_2_20180301_00002.jpg



USACE 2013 Photo #2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Right	7.81
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/17/2018 - 4/18/2018			
DWR Inspector	Dave Torres			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.11	Rating **	A/W	Issue No.	46
LM End	0.14	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.329369 °	38.329767 °
				-121.574936 °	-121.574589 °
DWR ID	DWR_RD0150_02_f_2017_46				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 185 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:286					
Site Designation:LMA-112					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. Scarps upto 3 ft deep, not fully vertical though. Area of concern because erosion is not very deep into prism.					

Photo 1 of 3 : LEVAL_SP_2018_286_1942.jpg



LM Start	0.11	Rating **	A/W	Issue No.	46 (cont)
LM End	0.14	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_286_2138.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0150 Merrit Island

View of the re-vegetation sign.

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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.16	Rating **	M	Issue No.	106
LM End	0.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330058 °	38.330058 °
				-121.574574 °	-121.574574 °
DWR ID	DWR_RD0150_02_s_2018_106				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	0.16	Rating **	U	Issue No.	49
LM End	0.16	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.330047 °	38.330047 °
				-121.574538 °	-121.574538 °
DWR ID	DWR_RD0150_02_s_2012_49				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_49_20180301_00027.jpg



Building located on waterside of levee.

LM Start	0.17	Rating **	M	Issue No.	990
LM End	0.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330173 °	38.330576 °
				-121.574490 °	-121.574093 °
DWR ID	DWR_RD0150_02_s_2012_990				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_990_20180301_00068.jpg



Landscaping was found on the landside of the levee looking upstream.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.18	Rating **	U	Issue No.	105
LM End	0.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.330339 °	38.330500 °
				-121.574311 °	-121.574138 °
DWR ID	DWR_RD0150_02_s_2018_105				
Comment Code					
FE : Fence					
Inspector Comment					
Landowner has installed a fence blockig access to levee.					

Photo 1 of 1 : SP_2018_RD0150_16_105_20180417_00130.jpg



Encroachment fence landside looking north.

LM Start	0.23	Rating **	M	Issue No.	991
LM End	0.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.330888 °	38.330888 °
				-121.573769 °	-121.573769 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42700 DS_ID:22416 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 2.8 feet below the crown. Pump on the landside (LS). Concrete box on the LS. (Thomas Estate). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.23)]. FS Date: 8/27/2013					

Photo 1 of 3 : UCIP_SP_2018_42700_34247.jpg



WS view: No pipe found on waterside slope. Dense vegetation on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.23	Rating **	M	Issue No.	991 (cont)	
LM End	0.23	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.330888 °		38.330888 °
				-121.573769 °		-121.573769 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42700 DS_ID:22416 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 2.8 feet below the crown. Pump on the landside (LS). Concrete box on the LS. (Thomas Estate). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.23)]. FS Date: 8/27/2013						

LM Start	0.23	Rating **	M	Issue No.	991 (cont)
LM End	0.23	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_42700_34246.jpg



LS view: abandoned pipe and pump on landside toe.

Photo 3 of 3 : UCIP_SP_2018_42700_34245.jpg



LS view: abandoned pipe and concrete box on landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.25	Rating **	U	Issue No.	4
LM End	0.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331035 °	38.331035 °
				-121.573502 °	-121.573502 °
DWR ID	DWR_RD0150_02_s_2012_4				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_4_20180301_00001.jpg



Landscaping on landward slope of the levee.

LM Start	0.31	Rating **	M	Issue No.	104
LM End	0.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331834 °	38.331834 °
				-121.572933 °	-121.572933 °
DWR ID	DWR_RD0150_02_s_2018_104				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	0.36	Rating **	M	Issue No.	103
LM End	0.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.332452 °	38.332452 °
				-121.572378 °	-121.572378 °
DWR ID	DWR_RD0150_02_s_2018_103				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.38	Rating **	M	Issue No.	6
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.332598 °	38.332598 °
				-121.572179 °	-121.572179 °
DWR ID	DWR_RD0150_02_s_2012_6				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_16_6_20180301_00003.jpg



Updated view of the slope instability on the waterside of the levee. Fall 2016

LM Start	0.38	Rating **	M	Issue No.	6 (cont)
LM End	0.38	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_RD0150_16_6_20180301_00004.jpg



Updated photo of the slope instability on the waterside of the levee looking upstream during spring 2014 inspection.

LM Start	0.38	Rating **	M	Issue No.	13
LM End	0.38	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.332647 °	38.332647 °
				-121.572140 °	-121.572140 °
DWR ID	DWR_RD0150_02_s_2012_13				
Comment Code					
ST : Stairway					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_13_20180301_00008.jpg



A stairway was found on the waterside of the levee. The picture was taken from the crown looking upstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.39	Rating **	M	Issue No.	992	
LM End	0.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.332670 °	38.332670 °	
				-121.572132 °	-121.572132 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20268						
DS_ID:22417						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Water leaks from pressure breaker.- Distribution box at the landward toe not found/visible.- Service pole on LS toe.						
FIELD_STRUCT_DESC: 4-inch steel irrigation discharge pipe joined to a 6-inch steel irrigation discharge pipe which is in turn joined to a 10-inch steel irrigation discharge pipe through the levee, 5.8 feet below the crown. 1.5-inch electrical conduit through the levee, 3 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS levee slope with a 10-inch pipe through the levee authorized under Permit No. 9448, 1974 - William N. Runyon). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 8/27/2013						

LM Start	0.39	Rating **	M	Issue No.	992 (cont)
LM End	0.39	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_20268_34244.jpg



WS view: walkway/stairs, pump on levee slope.

Photo 2 of 3 : UCIP_SP_2018_20268_34243.jpg



WS view: pump, electric control box, electric conduit on concrete pad.
Water leaks from pressure breaker.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.39	Rating **	M	Issue No.	992 (cont)	
LM End	0.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.332670 °		38.332670 °
				-121.572132 °		-121.572132 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20268						
DS_ID:22417						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Water leaks from pressure breaker.- Distribution box at the landward toe not found/visible.- Service pole on LS toe.						
FIELD_STRUCT_DESC: 4-inch steel irrigation discharge pipe joined to a 6-inch steel irrigation discharge pipe which is in turn joined to a 10-inch steel irrigation discharge pipe through the levee, 5.8 feet below the crown. 1.5-inch electrical conduit through the levee, 3 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS levee slope with a 10-inch pipe through the levee authorized under Permit No. 9448, 1974 - William N. Runyon). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_SP_2018_20268_34242.jpg



LS view: distribution box not found/visible on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.46	Rating **	M	Issue No.	993
LM End	0.46	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.333527 °	38.333527 °
				-121.571274 °	-121.571274 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20267 DS_ID:22418 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Abandoned pipe and pump.- Needs proper abandonment. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe and a 1-inch electrical conduit through the levee, invert elevation 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. Electrical box on the WS slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS with a 6-inch pipe through the levee authorized under Permit No. 9447, 1974 - Reuben A. Gentner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.47)]. FS Date: 8/27/2013					

Photo 1 of 3 : UCIP_SP_2018_20267_34239.jpg



WS view: steel pipe and pump on levee slope. Dense vegetation on waterside.

LM Start	0.46	Rating **	M	Issue No.	993 (cont)
LM End	0.46	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_20267_34238.jpg



WS view: steel pipe and pump on concrete pad. Seems abandoned.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.46	Rating **	M	Issue No.	993 (cont)	
LM End	0.46	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.333527 °	38.333527 °	
				-121.571274 °	-121.571274 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20267 DS_ID:22418 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Abandoned pipe and pump.- Needs proper abandonment. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe and a 1-inch electrical conduit through the levee, invert elevation 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. Electrical box on the WS slope. (Retention of an irrigation pumping plant, centrifugal pump, and gate valve on the WS with a 6-inch pipe through the levee authorized under Permit No. 9447, 1974 - Reuben A. Gentner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.47)]. FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_SP_2018_20267_34237.jpg



WS view: steel pipe, gate valve, and pump on levee slope. Seems abandoned.

LM Start	0.48	Rating **	M	Issue No.	994
LM End	0.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.333754 °	38.333754 °
				-121.571018 °	-121.571018 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20284 DS_ID:22419 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Needs proper abandonment. FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 5.7 feet below the crown. Power line on the landside (LS). (Retention of an irrigation pumping plant, a centrifugal pump, and an 8-inch steel pipe through the levee with a gate valve at the waterside [WS] end authorized under Permit No. 9446, 1974 - Hanna Olsen). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.49)]. FS Date: 8/27/2013					

Photo 1 of 2 : UCIP_SP_2018_20284_34265.jpg



WS view: abandoned pump on levee slope. Dense vegetation on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.48	Rating **	M	Issue No.	994 (cont)	
LM End	0.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.333754 °	38.333754 °	
				-121.571018 °	-121.571018 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20284 DS_ID:22419 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Needs proper abandonment. FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 5.7 feet below the crown. Power line on the landside (LS). (Retention of an irrigation pumping plant, a centrifugal pump, and an 8-inch steel pipe through the levee with a gate valve at the waterside [WS] end authorized under Permit No. 9446, 1974 - Hanna Olsen). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 34.49)]. FS Date: 8/27/2013						

Photo 2 of 2 : UCIP_SP_2018_20284_34264.jpg



LS view: exposed steel pipe and power pole on levee toe.

LM Start	0.53	Rating **	N	Issue No.	66
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.334318 °	38.334318 °
				-121.570349 °	-121.570349 °
DWR ID	DWR_RD0150_02_f_2016_66				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.70	Rating **	M	Issue No.	995
LM End	0.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.336183 °	38.336183 °
				-121.568383 °	-121.568383 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20303 DS_ID:22421 EP_NO: 16109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck. FIELD_STRUCT_DESC: 16-inch wrapped steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 6.2 feet below the crown. Slant pump on a steel platform on the waterside (WS) slope. 4-inch abandoned pipe on the WS slope. Concrete standpipe and power pole at the landside (LS) toe. (Plans to replace an existing irrigation pipe with a 16-inch wrapped steel pipe through the levee, construct a 3-foot-square concrete anchorage block on the WS slope, and install a 2-inch utility pipe through the levee authorized under Permit No. 18258-Revised, 2007 - Wilson Farms, Inc). [Additional Reference(s): DWR Levee Log, 2005, 14-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 34.71), 14-inch pipe referenced]. FS Date: 8/27/2013					

LM Start	0.70	Rating **	M	Issue No.	995 (cont)
LM End	0.70	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_20303_34287.jpg



WS view: slant pump on steel deck, 4-inch pipe (left) and 10-inch pipe (right) on levee slope.

Photo 2 of 3 : UCIP_SP_2018_20303_34286.jpg



WS view: steel pipes and leaky slant pump on steel deck.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.70	Rating **	M	Issue No.	995 (cont)	
LM End	0.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.336183 °	38.336183 °	
				-121.568383 °	-121.568383 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20303 DS_ID:22421 EP_NO: 16109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck. FIELD_STRUCT_DESC: 16-inch wrapped steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 6.2 feet below the crown. Slant pump on a steel platform on the waterside (WS) slope. 4-inch abandoned pipe on the WS slope. Concrete standpipe and power pole at the landside (LS) toe. (Plans to replace an existing irrigation pipe with a 16-inch wrapped steel pipe through the levee, construct a 3-foot-square concrete anchorage block on the WS slope, and install a 2-inch utility pipe through the levee authorized under Permit No. 18258-Revised, 2007 - Wilson Farms, Inc). [Additional Reference(s): DWR Levee Log, 2005, 14-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 34.71), 14-inch pipe referenced]. FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_SP_2018_20303_34285.jpg



LS view: 10-inch pipe and air vent on levee slope. Concrete standpipe inside water filtration plant.

LM Start	0.71	Rating **	M	Issue No.	10
LM End	0.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.336228 °	38.336228 °
				-121.568332 °	-121.568332 °
DWR ID	DWR_RD0150_02_s_2013_10				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_10_20180301_00006.jpg



Debris was found on the waterside slope of the levee looking downstream during spring 2013 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.71	Rating **	M	Issue No.	59
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.336291 °	38.336291 °
				-121.568260 °	-121.568260 °
DWR ID	DWR_RD0150_02_s_2016_59				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Damaged tree roots and trunks appear to damage landside slope of the levee.					

LM Start	0.71	Rating **	M	Issue No.	59 (cont)
LM End	0.71	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2018_RD0150_16_59_20180301_00041.jpg



Updated picture of the tree trunk on the landside of the levee. Fall 2017

Photo 2 of 2 : SP_2018_RD0150_16_59_20180301_00042.jpg



Updated picture of the tree limbs and roots on the landside of the levee looking downstream. Fall 2016

LM Start	0.72	Rating **	M	Issue No.	73
LM End	0.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.336400 °	38.336400 °
				-121.568285 °	-121.568285 °
DWR ID	DWR_RD0150_02_f_2017_73				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	0.96	Rating **	M	Issue No.	102
LM End	0.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.338976 °	38.339249 °
				-121.565267 °	-121.564937 °
DWR ID	DWR_RD0150_02_s_2018_102				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	0.97	Rating **	M	Issue No.	12
LM End	0.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.339035 °	38.339035 °
				-121.565145 °	-121.565145 °
DWR ID	DWR_RD0150_02_s_2012_12				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_12_20180301_00007.jpg



Overgrown trees were obstructing the landside slope of the levee looking upstream.

LM Start	1.14	Rating **	N	Issue No.	8	
LM End	1.14	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.340864 °		38.340864 °
				-121.562915 °		-121.562915 °
DWR ID	DWR_RD0150_02_s_2012_8					
Comment Code						
T5 : Tree stumps.						
Inspector Comment						

Photo 1 of 1 : SP_2018_RD0150_16_8_20180301_00005.jpg



View of a tree stump on the landward slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	1.26	Rating **	M	Issue No.	92
LM End	1.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.342229 °	38.342229 °
				-121.561694 °	-121.561694 °
DWR ID	DWR_RD0150_02_s_2012_92				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	1.32	Rating **	U	Issue No.	91
LM End	1.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.343010 °	38.343276 °
				-121.561096 °	-121.560739 °
DWR ID	DWR_RD0150_02_s_2012_91				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_16_91_20180301_00058.jpg



Landscaping was obstructing the view of the landside slope of the levee looking downstream. This picture was taken during spring 2013 inspection.

LM Start	1.32	Rating **	U	Issue No.	91 (cont)
LM End	1.35	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_RD0150_16_91_20180301_00059.jpg



Landscaping was found landside of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	1.34	Rating **	M	Issue No.	996
LM End	1.34	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.343136°	38.343136°	
			-121.560868°	-121.560868°	
DWR ID					

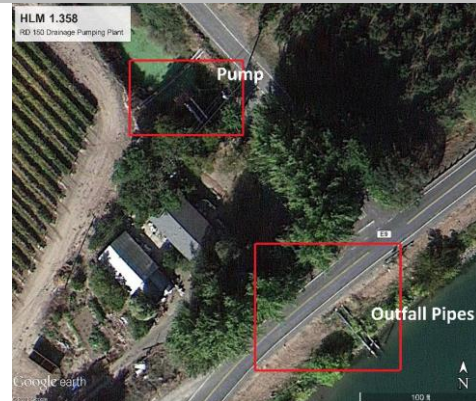
Comment Code

Inspector Comment

FS_ID:20727
DS_ID:22393
EP_NO: 18221
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside. Pumps on piling structure with shed in drainage ditch. Siphon breaker cover missing. Needs to fix it.
FIELD_STRUCT_DESC: [Reclamation District No. 150 (RD0150) Drainage Plant] 1 of 2: 30-inch steel drainage discharge pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Siphon breaker on the WS slope. Pump on a piling structure with a shed in the drainage ditch. (Plans to replace existing 36-inch and 24-inch discharge pipes with 30-inch and 24-inch steel discharge pipes through the levee authorized under Permit No. 18221, 2007 - RD0150). [Additional Reference(s): DWR Levee Log, 2005, 36-inch pipe referenced, 9 feet below the crown. USACE Sacramento O&M Manual 112, March 1957, (RM 35.36), 36-inch pipe referenced, invert elevation 9 feet below the crown].
FS Date: 8/27/2013

LM Start	1.34	Rating **	M	Issue No.	996 (cont)
LM End	1.34	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_20727_34889.jpg



Bird's eye view: outfall pipes (bottom) and pump structure in drainage ditch (top)

Photo 2 of 3 : UCIP_SP_2018_20727_34888.jpg



WS view: siphon breaker in pipe riser on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	1.34	Rating **	M	Issue No.	996 (cont)	
LM End	1.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.343136 °	38.343136 °	
				-121.560868 °	-121.560868 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20727 DS_ID:22393 EP_NO: 18221 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside.Pumps on piling structure with shed in drainage ditch.Siphon breaker cover missing. Needs to fix it. FIELD_STRUCT_DESC: [Reclamation District No. 150 (RD0150) Drainage Plant] 1 of 2: 30-inch steel drainage discharge pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Siphon breaker on the WS slope. Pump on a piling structure with a shed in the drainage ditch. (Plans to replace existing 36-inch and 24-inch discharge pipes with 30-inch and 24-inch steel discharge pipes through the levee authorized under Permit No. 18221, 2007 - RD0150). [Additional Reference(s): DWR Levee Log, 2005, 36-inch pipe referenced, 9 feet below the crown. USACE Sacramento O&M Manual 112, March 1957, (RM 35.36), 36-inch pipe referenced, invert elevation 9 feet below the crown]. FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_SP_2018_20727_34887.jpg



WS view: submerged flap gate in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	1.34	Rating **	A/W	Issue No.	997
LM End	1.34	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.343144 °	38.343144 °
				-121.560856 °	-121.560856 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:20346
DS_ID:22479
EP_NO: 18221
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside. Pumps on piling structure with shed in drainage ditch.
FIELD_STRUCT_DESC: [Reclamation District No. 150 (RD0150) Drainage Plant] 2 of 2: 24-inch steel drainage discharge pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Siphon breaker on the WS slope. Pump on a piling structure with a shed in the drainage ditch. (Plans to replace existing 36-inch and 24-inch discharge pipes with 30-inch and 24-inch steel discharge pipes through the levee authorized under Permit No. 18221, 2007 - RD0150). [Additional Reference(s): DWR Levee Log, 2005, referenced as 8 feet below the crown. USACE Sacramento O&M Manual 112, March 1957, (RM 35.36), referenced as invert elevation 8 feet below the crown].
FS Date: 8/27/2013

LM Start	1.34	Rating **	A/W	Issue No.	997 (cont)
LM End	1.34	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_20346_34350.jpg



Bird's Eye view: pumping plant (top) and outfall pipes (bottom).

Photo 2 of 3 : UCIP_SP_2018_20346_34349.jpg



WS view: submerged flap gate in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	1.34	Rating **	A/W	Issue No.	997 (cont)	
LM End	1.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.343144 °	38.343144 °	
				-121.560856 °	-121.560856 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20346 DS_ID:22479 EP_NO: 18221 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside.Pumps on piling structure with shed in drainage ditch. FIELD_STRUCT_DESC: [Reclamation District No. 150 (RD0150) Drainage Plant] 2 of 2: 24-inch steel drainage discharge pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Siphon breaker on the WS slope. Pump on a piling structure with a shed in the drainage ditch. (Plans to replace existing 36-inch and 24-inch discharge pipes with 30-inch and 24-inch steel discharge pipes through the levee authorized under Permit No. 18221, 2007 - RD0150). [Additional Reference(s): DWR Levee Log, 2005, referenced as 8 feet below the crown. USACE Sacramento O&M Manual 112, March 1957, (RM 35.36), referenced as invert elevation 8 feet below the crown]. FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_SP_2018_20346_34348.jpg



LS view: exposed 30" pipe (left) and 24" pipe (right) on levee slope.

LM Start	1.46	Rating **	M	Issue No.	96
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.344207 °	38.344207 °
				-121.559072 °	-121.559072 °
DWR ID	DWR_RD0150_02_s_2018_96				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_96_20180418_00131.jpg



Rodent control waterside looking southeast.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	1.73	Rating **	M	Issue No.	48
LM End	1.73	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.345583 °	38.345583 °
				-121.554507 °	-121.554507 °
DWR ID	DWR_RD0150_02_f_2014_48				
Comment Code					
PO : Pole					
Inspector Comment					
A pole was found on the waterside slope of the levee. Most probably is connected to a pump.					

Photo 1 of 1 : SP_2018_RD0150_16_48_20180301_00026.jpg



A pole/pipe was found on the waterside slope of the levee looking upstream.

LM Start	1.81	Rating **	M	Issue No.	101
LM End	1.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.345983 °	38.345983 °
				-121.553075 °	-121.553075 °
DWR ID	DWR_RD0150_02_s_2018_101				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	1.91	Rating **	M	Issue No.	998
LM End	1.91	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.346448 °	38.346448 °
				-121.551293 °	-121.551293 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20348					
DS_ID:22395					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - Operating during inspection.- Overhead powerline crossing- CMP riser with siphon breaker needs cleaning.					
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Power poles on both slopes. Ramp on the landside (LS) slope. Siphon breaker on the LS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 35.94)].					
FS Date: 8/27/2013					

Photo 1 of 3 : UCIP_SP_2018_20348_34371.jpg



WS view: service pole, pipe & pump on piling structure in the stream.

LM Start	1.91	Rating **	M	Issue No.	998 (cont)
LM End	1.91	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_20348_34370.jpg



WS view: pipe & pump on piling structure in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	1.91	Rating **	M	Issue No.	998 (cont)	
LM End	1.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.346448 °	38.346448 °	
				-121.551293 °	-121.551293 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20348						
DS_ID:22395						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Operating during inspection.- Overhead powerline crossing- CMP riser with siphon breaker needs cleaning.						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Power poles on both slopes. Ramp on the landside (LS) slope. Siphon breaker on the LS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 35.94)].						
FS Date: 8/27/2013						

Photo 3 of 3 : UCIP_SP_2018_20348_34369.jpg



LS view: concrete distribution box on levee toe.

LM Start	2.10	Rating **	M	Issue No.	100
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.346973 °	38.347037 °
				-121.547881 °	-121.547429 °
DWR ID	DWR_RD0150_02_s_2018_100				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	2.10	Rating **	M	Issue No.	63
LM End	2.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.347002 °	38.347002 °
				-121.547803 °	-121.547803 °
DWR ID	DWR_RD0150_02_f_2016_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_63_20180301_00044.jpg



View of a tree trunk on the landside slope of the levee.

LM Start	2.14	Rating **	M	Issue No.	999
LM End	2.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.347032 °	38.347032 °
				-121.547159 °	-121.547159 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20731 DS_ID:22396 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Operating during inspection. Leaky join at the concrete box.- Power overhead crossing. Power pole at waterside shoulder, and landside toe. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5 feet below the crown. Slant pump on the waterside (WS) slope. Power pole on the WS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 36.17)]. FS Date: 8/27/2013					

Photo 1 of 3 : UCIP_SP_2018_20731_34902.jpg



WS view: slant pump on steel frame support and exposed pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0150 Merrit Island

LM Start	2.14	Rating **	M	Issue No.	999 (cont)
LM End	2.14	Issue Type +	En	Location *	

LS view: concrete distribution box on levee toe and exposed steel pipe on levee slope.

LS view: leaky concrete distribution box on levee toe.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	2.14	Rating **	M	Issue No.	68
LM End	2.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.347083 °	38.347083 °
				-121.547063 °	-121.547063 °
DWR ID	DWR_RD0150_02_f_2017_68				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_68_20180301_00049.jpg



View of prunings on the landside shoulder of the levee.

LM Start	2.20	Rating **	M	Issue No.	99
LM End	2.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347168 °	38.347205 °
				-121.545977 °	-121.545679 °
DWR ID	DWR_RD0150_02_s_2018_99				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	2.28	Rating **	M	Issue No.	88
LM End	2.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347355 °	38.347361 °
				-121.544628 °	-121.544280 °
DWR ID	DWR_RD0150_02_s_2012_88				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_88_20180301_00057.jpg



Landscaping was found on the landside of the levee. The picture was taken from the crown looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	2.40	Rating **	M	Issue No.	98
LM End	2.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347581 °	38.347811 °
				-121.542334 °	-121.541273 °
DWR ID	DWR_RD0150_02_s_2018_98				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	2.58	Rating **	M	Issue No.	97
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.348494 °	38.348494 °
				-121.539388 °	-121.539388 °
DWR ID	DWR_RD0150_02_s_2018_97				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	2.72	Rating **	M	Issue No.	70
LM End	2.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.349777 °	38.349777 °
				-121.537247 °	-121.537247 °
DWR ID	DWR_RD0150_02_s_2017_70				
Comment Code					
TA : Tank					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_70_20180301_00050.jpg



A tank was found on the landside toe of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	2.75	Rating **	N	Issue No.	14
LM End	2.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.350041 °	38.350041 °
				-121.536853 °	-121.536853 °
DWR ID	DWR_RD0150_02_s_2012_14				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_14_20180301_00009.jpg



View of a tree stump on the landward slope.

LM Start	2.97	Rating **	U	Issue No.	85
LM End	3.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.352372 °	38.352802 °
				-121.534127 °	-121.533638 °
DWR ID	DWR_RD0150_02_s_2012_85				
Comment Code					
V6 : Landscaping					
Inspector Comment					

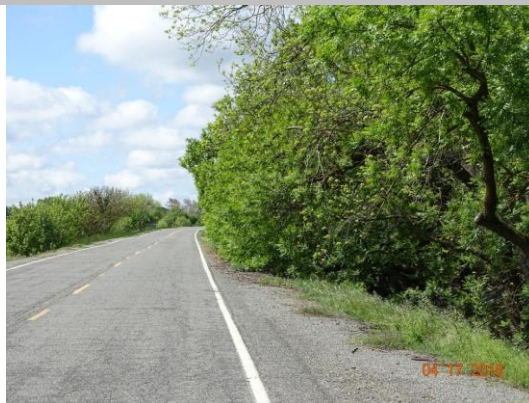
Photo 1 of 1 : SP_2018_RD0150_16_85_20180301_00056.jpg



Landscaping providing a screen for a residence on the landside of levee.

LM Start	3.08	Rating **	U	Issue No.	95
LM End	3.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.353541 °	38.353822 °
				-121.532844 °	-121.532574 °
DWR ID	DWR_RD0150_02_s_2018_95				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim trees on landside slope.					

Photo 1 of 1 : SP_2018_RD0150_16_95_20180417_00129.jpg



Vegetation landside looking southwest.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.21	Rating **	M	Issue No.	94
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.354986 °	38.354986 °
				-121.531364 °	-121.531364 °
DWR ID	DWR_RD0150_02_s_2018_94				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	3.24	Rating **	M	Issue No.	961
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 1 of 5 : SP_2018_RD0150_16_961_20180301_00061.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 2 of 5 : SP_2018_RD0150_16_961_20180301_00062.jpg



View of the erosion on the waterside slope of the levee near the pipe looking downstream. This picture was taken during the fall 2013 inspection.

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS

Photo 3 of 5 : SP_2018_RD0150_16_961_20180301_00063.jpg



View of the erosion on the waterside slope of the levee looking upstream during spring 2013 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 4 of 5 : SP_2018_RD0150_16_961_20180301_00064.jpg



View of erosion and damaged pipe and abandoned boat on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS

Photo 5 of 5 : SP_2018_RD0150_16_961_20180301_00065.jpg



View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.24	Rating **	M	Issue No.	1000	
LM End	3.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.355360 °	38.355360 °	
				-121.530838 °	-121.530838 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20736						
DS_ID:22402						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - 10" steel pipe sleeved through 12" steel pipe.- main pipe bifurcates into two pipes on LS slope and connected to standpipe and concrete box.- 2" electric conduit on WS and power pole on LS.- needs filling into gap between 10" and 12" steel pipes on LS.						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Concrete standpipe and concrete distribution box at the landside (LS) toe. (A. Green). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.30)].						
FS Date: 8/30/2013						

LM Start	3.24	Rating **	M	Issue No.	1000 (cont)
LM End	3.24	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_20736_34917.jpg



WS view: pipe, conduit and pump on levee slope.

Photo 2 of 3 : UCIP_SP_2018_20736_34916.jpg



WS view: steel pipe and GI conduit on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.24	Rating **	M	Issue No.	1000 (cont)	
LM End	3.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.355360 °	38.355360 °	
				-121.530838 °	-121.530838 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20736 DS_ID:22402 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe sleeved through 12" steel pipe.- main pipe bifurcates into two pipes on LS slope and connected to standpipe and concrete box.- 2" electric conduit on WS and power pole on LS.- needs filling into gap between 10" and 12" steel pipes on LS. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 4 feet below the crown. Pump on a piling structure in the river. Concrete standpipe and concrete distribution box at the landside (LS) toe. (A. Green). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.30)]. FS Date: 8/30/2013						

Photo 3 of 3 : UCIP_SP_2018_20736_34915.jpg



WS view: pipe and pump on levee slope. Gate valve and air vent on the pipe.

LM Start	3.30	Rating **	M	Issue No.	17
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.355979 °	38.355979 °
				-121.530288 °	-121.530288 °
DWR ID	DWR_RD0150_02_s_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry is partially blocking the visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.42	Rating **	A/W	Issue No.	47
LM End	3.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.357183 °	38.357631 °
				-121.528547 °	-121.527981 °
DWR ID	DWR_RD0150_02_f _ 2017_47				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 229 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:287					
Site Designation:LMA-113					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Crown is a paved road. Erosion scarps upto 10 ft deep and within 5 ft of crown. Worst conditions on the DS end. Exposed filter fabric. Serious because of depth of erosion into levee, weak soil, and proximity to crown which is a high traffic public road.					

Photo 1 of 3 : LEVAL_SP_2018_287_2143.jpg



LM Start	3.42	Rating **	A/W	Issue No.	47 (cont)
LM End	3.46	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_287_2146.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

Photo 3 of 3 : LEVAL_SP_2018_287_2149.jpg

A photograph showing a person wearing a white hard hat and a high-visibility orange safety vest walking away from the camera on a grassy, slightly eroded bank. To the right of the person is a river with a rocky shoreline. The water is blue and reflects the sky. The background shows more greenery and a distant shoreline.

Photo 1 of 3 : UCIP_SP_2018_19846_33727.jpg



WS view: pipe, pump, and conduit on levee slope.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.50	Rating **	M	Issue No.	1001 (cont)	
LM End	3.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.358094 °		38.358094 °
				-121.527619 °		-121.527619 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19846 DS_ID:22403 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 8" pvc pipe sleeved into 12" steel pipe.- needs filling/grouting in gas between 8" pvc pipe and 12" steel pipe on WS.- 1.5" electric conduit on WS- 10" steel pipe extended to 8" pvc pipe on landside levee toe. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 3 feet below the crown. Pump and gate valve on the waterside (WS) slope. (R. and J. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 37.56)]. FS Date: 8/30/2013						

LM Start	3.50	Rating **	M	Issue No.	1001 (cont)
LM End	3.50	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_19846_33726.jpg



WS view: steel conduit (right); 8" pvc pipe sleeved into 12" steel pipe.

Photo 3 of 3 : UCIP_SP_2018_19846_33725.jpg



LS view: exposed pipe on levee slope and standpipe on the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.51	Rating **	M	Issue No.	1002
LM End	3.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358131 °	38.358131 °
				-121.527540 °	-121.527540 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19848 DS_ID:22404 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs proper abandonment. FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe of an unknown purpose on the landside (LS) slope. 1-inch steel conduit on the waterside (WS) slope was found. FS Date: 8/30/2013					

Photo 1 of 3 : UCIP_SP_2018_19848_33734.jpg



WS view: abandoned 1-inch conduit on levee slope.

LM Start	3.51	Rating **	M	Issue No.	1002 (cont)
LM End	3.51	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_19848_33733.jpg



LS view: exposed 4-inch steel pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.51	Rating **	M	Issue No.	1002 (cont)
LM End	3.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358131 °	38.358131 °
				-121.527540 °	-121.527540 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19848 DS_ID:22404 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs proper abandonment. FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe of an unknown purpose on the landside (LS) slope. 1-inch steel conduit on the waterside (WS) slope was found. FS Date: 8/30/2013					

Photo 3 of 3 : UCIP_SP_2018_19848_33732.jpg



LS view: abandoned 4-inch steel pipe on levee slope.

LM Start	3.54	Rating **	U	Issue No.	82
LM End	3.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.358530 °	38.359749 °
				-121.527162 °	-121.525245 °
DWR ID	DWR_RD0150_02_s_2012_82				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_82_20180301_00055.jpg



Landscaping was blocking the visibility on the landside of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	3.75	Rating **	C	Issue No.	67
LM End	3.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.360444 °	38.360444 °
				-121.524200 °	-121.524200 °
DWR ID	DWR_RD0150_02_s_2017_67				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	3.84	Rating **	U	Issue No.	80
LM End	3.87	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.361442 °	38.361812 °
				-121.523170 °	-121.522908 °
DWR ID	DWR_RD0150_02_s_2012_80				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_80_20180301_00054.jpg



Landscaping in front of a residence on landside of levee from LM 3.90 to LM 3.93. The levee in this location is greater than 100' wide.

LM Start	3.88	Rating **	M	Issue No.	33
LM End	3.88	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.361970 °	38.361970 °
				-121.522777 °	-121.522777 °
DWR ID	DWR_RD0150_02_s_2012_33				
Comment Code					
ST : Stairway					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_33_20180301_00016.jpg



A stairway was found on the waterside slope of the levee.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	4.09	Rating **	M	Issue No.	20
LM End	4.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.364948 °	38.364948 °
				-121.522339 °	-121.522339 °
DWR ID	DWR_RD0150_02_s_2012_20				
Comment Code					
BU : Building					
Inspector Comment					
3' retaining wall at the landward shoulder.					

Photo 1 of 1 : SP_2018_RD0150_16_20_20180301_00010.jpg



View of a retaining wall on the landward slope looking upstream.

LM Start	4.11	Rating **	M	Issue No.	953
LM End	4.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.365267 °	38.365267 °
				-121.522379 °	-121.522379 °
DWR ID	DWR_RD0150_02_s_2012_953				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_953_20180301_00060.jpg



View of cacti on the landside of the levee looking from the crown.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	4.17	Rating **	M	Issue No.	1003	
LM End	4.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.366149 °	38.366149 °	
				-121.522352 °	-121.522352 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42702 DS_ID:22407 EP_NO: 13505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- no pipe and structure found on landside.- siphon breaker in 24" CMP riser on waterside.- control box and electric conduit on waterside slope. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 5 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker on the WS slope in a corrugated metal pipe (CMP) riser. Control box and electrical conduit on the WS slope. (Plans to replace an existing pipeline with a 14-inch steel pipeline through the levee authorized under Permit No. 13505, 1982 - Gary Pylman). [Additional Reference(s): DWR Levee Log, 2005, 10-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 38.24), 10-inch pipe referenced]. FS Date: 8/30/2013						

LM Start	4.17	Rating **	M	Issue No.	1003 (cont)
LM End	4.17	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_42702_33782.jpg



WS view: slanted pump on levee slope.

Photo 2 of 3 : UCIP_SP_2018_42702_33781.jpg



WS view: exposed 14-inch steel pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	4.17	Rating **	M	Issue No.	1003 (cont)	
LM End	4.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.366149 °	38.366149 °	
				-121.522352 °	-121.522352 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42702 DS_ID:22407 EP_NO: 13505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- no pipe and structure found on landside.- siphon breaker in 24" CMP riser on waterside.- control box and electric conduit on waterside slope. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 5 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker on the WS slope in a corrugated metal pipe (CMP) riser. Control box and electrical conduit on the WS slope. (Plans to replace an existing pipeline with a 14-inch steel pipeline through the levee authorized under Permit No. 13505, 1982 - Gary Pylman). [Additional Reference(s): DWR Levee Log, 2005, 10-inch pipe referenced. USACE Sacramento O&M Manual 112, March 1957, (RM 38.24), 10-inch pipe referenced]. FS Date: 8/30/2013						

Photo 3 of 3 : UCIP_SP_2018_42702_33780.jpg



WS view: electric control box and electric conduit on levee slope.

LM Start	4.26	Rating **	U	Issue No.	24
LM End	4.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.367442 °	38.367740 °
				-121.522427 °	-121.522495 °
DWR ID	DWR_RD0150_02_s_2012_24				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_24_20180301_00011.jpg



Landscaping (Oleander) on landward slope from 4.33 to 4.35

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	4.27	Rating **	M	Issue No.	107
LM End	4.27	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.367507 °	38.367507 °
				-121.522493 °	-121.522493 °
DWR ID	DWR_RD0150_02_s_2018_107				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Removed downed tree on waterside slope.					

Photo 1 of 1 : SP_2018_RD0150_16_107_20180418_00132.jpg



Encroachment downed tree waterside looking northeast.

LM Start	4.30	Rating **	U	Issue No.	79
LM End	4.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.368036 °	38.368540 °
				-121.522611 °	-121.522729 °
DWR ID	DWR_RD0150_02_s_2012_79				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_79_20180301_00053.jpg



Trees were obstructing the views on the landside slope of the levee looking downstream.

LM Start	4.50	Rating **	A/W	Issue No.	1
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.370928 °	38.371909 °
				-121.523069 °	-121.523316 °
DWR ID	DWR_RD0150_02_s_2016_1				
Comment Code					
Inspector Comment					
1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013 - Tree at upstream end has exposed roots. Some new erosion. 2015: No observed changes. [2015 Site ID: SAC 38-5 R]					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	4.59	Rating **	M	Issue No.	93
LM End	4.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.372160 °	38.372160 °
				-121.523701 °	-121.523701 °
DWR ID	DWR_RD0150_02_s_2018_93				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	4.69	Rating **	M	Issue No.	28
LM End	4.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.373485 °	38.373485 °
				-121.523963 °	-121.523963 °
DWR ID	DWR_RD0150_02_s_2012_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_28_20180301_00013.jpg



Century plant on waterward slope at LM 4.76

LM Start	4.70	Rating **	U	Issue No.	76
LM End	4.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.373688 °	38.373970 °
				-121.524280 °	-121.524403 °
DWR ID	DWR_RD0150_02_s_2012_76				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_76_20180301_00052.jpg



Trees were obstructing the view of the landside slope of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	4.86	Rating **	M	Issue No.	90
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.375740 °	38.376181 °
				-121.525274 °	-121.525431 °
DWR ID	DWR_RD0150_02_s_2018_90				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	5.04	Rating **	A/W	Issue No.	50
LM End	5.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.378311 °	38.379458 °
				-121.525317 °	-121.524931 °
DWR ID	DWR_RD0150_02_f _ 2017_50				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 447 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:288					
Site Designation:LMA-114					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. Much of site was not accessible because of thorny veg. Scarps were only about 1 ft deep where it was accessible so rated it a lower priorit. Irrigation pipe within the site. A boat view would be helpful here.					

Photo 1 of 3 : LEVAL_SP_2018_288_2155.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	5.04	Rating **	A/W	Issue No.	50 (cont)
LM End	5.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.378311 °	38.379458 °
				-121.525317 °	-121.524931 °
DWR ID	DWR_RD0150_02_f _ 2017_50				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 447 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:288					
Site Designation:LMA-114					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. Much of site was not accessible because of thorny veg. Scarps were only about 1 ft deep where it was accessible so rated it a lower priorit. Irrigation pipe within the site. A boat view would be helpful here.					

Photo 2 of 3 : LEVAL_SP_2018_288_2156.jpg



LM Start	5.04	Rating **	A/W	Issue No.	50 (cont)
LM End	5.12	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL_SP_2018_288_2157.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	5.06	Rating **	A/W	Issue No.	40
LM End	7.81	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378674 °	38.414029 °
				-121.525423 °	-121.522991 °
DWR ID	DWR_RD0150_02_s_2012_40				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

LM Start	5.06	Rating **	M	Issue No.	30
LM End	5.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378715 °	38.379052 °
				-121.525458 °	-121.525341 °
DWR ID	DWR_RD0150_02_s_2012_30				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_30_20180301_00014.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

LM Start	5.08	Rating **	M	Issue No.	75
LM End	5.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378914 °	38.379839 °
				-121.525366 °	-121.524968 °
DWR ID	DWR_RD0150_02_s_2012_75				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_75_20180301_00051.jpg



View of landscaping along the landward shoulder and slope looking downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	5.20	Rating **	M	Issue No.	89
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.380544 °	38.380544 °
				-121.524587 °	-121.524587 °
DWR ID	DWR_RD0150_02_s_2018_89				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	5.24	Rating **	M	Issue No.	1004
LM End	5.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.381079 °	38.381079 °
				-121.524166 °	-121.524166 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20740 DS_ID:22410 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 3 feet below the crown. Service pole and standpipe at the landside (LS) toe. (C. Sakai). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 39.32)]. FS Date: 8/30/2013					

Photo 1 of 3 : UCIP_SP_2018_20740_34941.jpg



WS view: pipe, walkway, slant pump & pump platform on stream bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

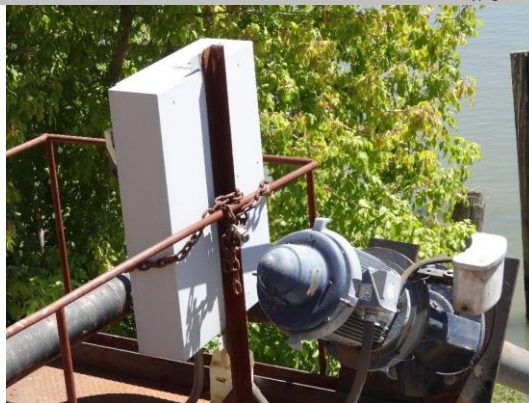
Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	5.24	Rating **	M	Issue No.	1004 (cont)	
LM End	5.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.381079 °		38.381079 °
				-121.524166 °		-121.524166 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20740 DS_ID:22410 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe and a 2-inch electrical conduit through the levee, invert elevation 3 feet below the crown. Service pole and standpipe at the landside (LS) toe. (C. Sakai). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 39.32)]. FS Date: 8/30/2013						

LM Start	5.24	Rating **	M	Issue No.	1004 (cont)
LM End	5.24	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_20740_34940.jpg



WS view: pipe, slant pump & pump platform on stream bank.

Photo 3 of 3 : UCIP_SP_2018_20740_34939.jpg



WS view: steel steps to pump platform, exposed steel pipe, and electric conduit on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	5.24	Rating **	M	Issue No.	975
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381126 °	38.381126 °
				-121.524207 °	-121.524207 °
DWR ID	DWR_RD0150_02_s_2013_975				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Depression in the waterward slope at the shoulder over an irrigation pipe.					

Photo 1 of 2 : SP_2018_RD0150_16_975_20180301_00066.jpg



View of minor slope instability on the waterside slope of the levee looking downstream during fall 2013 inspection.

LM Start	5.24	Rating **	M	Issue No.	975 (cont)
LM End	5.24	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_RD0150_16_975_20180301_00067.jpg



View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

LM Start	5.27	Rating **	M	Issue No.	87
LM End	5.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.381524 °	38.381524 °
				-121.523883 °	-121.523883 °
DWR ID	DWR_RD0150_02_s_2018_87				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	5.29	Rating **	M	Issue No.	109
LM End	5.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381660 °	38.381660 °
				-121.523726 °	-121.523726 °
DWR ID	DWR_RD0150_02_s_2018_109				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	5.33	Rating **	M	Issue No.	54
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.382072 °	38.382072 °
				-121.523220 °	-121.523220 °
DWR ID	DWR_RD0150_02_f_2014_54				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_54_20180301_00036.jpg



View of a slope instability on the waterside of the levee looking towards the toe.

LM Start	5.39	Rating **	M	Issue No.	74
LM End	5.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.382675 °	38.382793 °
				-121.522367 °	-121.522164 °
DWR ID	DWR_RD0150_02_s_2012_74				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	5.44	Rating **	U	Issue No.	86	
LM End	5.44	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.383127 °		38.383127 °
				-121.521603 °		-121.521603 °
DWR ID	DWR_RD0150_02_s_2018_86					
Comment Code						
FW : Firewood						
Inspector Comment						
Firewood at landside toe.						

Photo 1 of 1 : SP_2018_RD0150_16_86_20180417_00128.jpg



Encroachment firewood landside looking west.

LM Start	5.56	Rating **	M	Issue No.	84
LM End	5.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.384163 °	38.384163 °
				-121.519833 °	-121.519833 °
DWR ID	DWR_RD0150_02_s_2018_84				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	5.77	Rating **	M	Issue No.	83
LM End	5.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.386174 °	38.386890 °
				-121.517065 °	-121.516518 °
DWR ID	DWR_RD0150_02_s_2018_83				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	5.85	Rating **	A/W	Issue No.	51
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.387241 °		
			-121.516284 °		
DWR ID	DWR_RD0150_02_f_2017_51				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:209					
Site Designation:306-135					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	5.90	Rating **	M	Issue No.	52
LM End	5.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.387915 °	38.387915 °	
			-121.516002 °	-121.516002 °	
DWR ID	DWR_RD0150_02_f_2016_52				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion due to runoff.					

Photo 1 of 2 : SP_2018_RD0150_16_52_20180301_00031.jpg



Updated picture of the erosion on the landside of the levee during spring 2017 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	5.90	Rating **	M	Issue No.	52 (cont)	
LM End	5.90	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.387915 °	38.387915 °	
				-121.516002 °	-121.516002 °	
DWR ID	DWR_RD0150_02_f_2016_52					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion due to runoff.						

Photo 2 of 2 : SP_2018_RD0150_16_52_20180301_00032.jpg



View of an erosion due to runoff on the landside of the levee. Fall 2016

LM Start	6.13	Rating **	M	Issue No.	1005	
LM End	6.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.391099 °	38.391099 °	
				-121.514913 °	-121.514913 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20748						
DS_ID:22412						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - slope erosion due leaky siphon breaker at CMP riser- leaky pipe and pump- service pole on LS- 2" electric conduit on WS						
FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe and an electrical conduit through the levee, invert elevation 4.8 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Slope erosion on the LS at the siphon breaker. (Ed Boyles). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.22)].						
FS Date: 8/30/2013						

Photo 1 of 3 : UCIP_SP_2018_20748_34967.jpg



WS view: steel pipe and slant pump on levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.13	Rating **	M	Issue No.	1005 (cont)	
LM End	6.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.391099	°	38.391099
				-121.514913	°	-121.514913
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20748						
DS_ID:22412						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - slope erosion due leaky siphon breaker at CMP riser- leaky pipe and pump- service pole on LS- 2" electric conduit on WS						
FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe and an electrical conduit through the levee, invert elevation 4.8 feet below the crown. Slant pump on the waterside (WS) slope. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Slope erosion on the LS at the siphon breaker. (Ed Boyles). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.22)].						
FS Date: 8/30/2013						

LM Start	6.13	Rating **	M	Issue No.	1005 (cont)
LM End	6.13	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_20748_34966.jpg



WS view: leaky steel pipe and slant pump on levee slope.

Photo 3 of 3 : UCIP_SP_2018_20748_34965.jpg



LS view: siphon breaker in CMP riser (left) on levee slope and concrete standpipe at levee toe (right).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.16	Rating **	M	Issue No.	81
LM End	6.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.391563 °	38.392176 °
				-121.514888 °	-121.514781 °
DWR ID	DWR_RD0150_02_s _ 2018_81				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	6.30	Rating **	M	Issue No.	27
LM End	6.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393655 °	38.393655 °
				-121.514654 °	-121.514654 °
DWR ID	DWR_RD0150_02_s _ 2012_27				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Century plant on the landward slope.					

Photo 1 of 1 : SP_2018_RD0150_16_27_20180301_00012.jpg



Century plant was found on the landside of the levee looking upstream.

LM Start	6.32	Rating **	M	Issue No.	29
LM End	6.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393850 °	38.393850 °
				-121.514629 °	-121.514629 °
DWR ID	DWR_RD0150_02_s _ 2012_29				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.36	Rating **	U	Issue No.	31
LM End	6.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394416 °	38.394416 °
				-121.514590 °	-121.514590 °
DWR ID	DWR_RD0150_02_s_2012_31				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_31_20180301_00015.jpg



Trees need to be trimmed on the landside of the levee looking upstream.

LM Start	6.39	Rating **	M	Issue No.	65
LM End	6.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394935 °	38.395931 °
				-121.514597 °	-121.514604 °
DWR ID	DWR_RD0150_02_s_2012_65				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_65_20180301_00046.jpg



View of landscaping along the waterward shoulder and slope looking downstream.

LM Start	6.40	Rating **	U	Issue No.	78
LM End	6.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394977 °	38.395325 °
				-121.514544 °	-121.514563 °
DWR ID	DWR_RD0150_02_s_2018_78				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_78_20180430_00134.jpg



Vegetation landside looking south.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.42	Rating **	M	Issue No.	34
LM End	6.42	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395340 °	38.395340 °
				-121.514528 °	-121.514528 °
DWR ID	DWR_RD0150_02_s_2012_34				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_34_20180301_00017.jpg



Landscaping was found on the waterside of the levee looking upstream.

LM Start	6.44	Rating **	M	Issue No.	77
LM End	6.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395545 °	38.395931 °
				-121.514557 °	-121.514584 °
DWR ID	DWR_RD0150_02_s_2018_77				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.48	Rating **	M	Issue No.	42
LM End	6.48	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396235 °	38.396235 °
				-121.514547 °	-121.514547 °
DWR ID	DWR_RD0150_02_s_2012_42				
Comment Code					
ST : Stairway					
Inspector Comment					
Unpermitted stairway.					

Photo 1 of 1 : SP_2018_RD0150_16_42_20180301_00018.jpg



A stairway was found on the waterside slope of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.50	Rating **	M	Issue No.	1006	
LM End	6.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.396449 °	38.396449 °	
				-121.514516 °	-121.514516 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50669						
DS_ID:22413						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 11/09/2016 Per FPIIB Inspector Pavel Kazi, the CMP riser has been removed and the pipe is now exposed. Pipe still requires proper abandonment. (K. Fazel - UCIP)08/30/2013 Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe, 10 feet below the crown. Gate valve on each end, though only one was found on the waterside (WS) in 2013. Pump on the landside (LS), 10 feet from the LS toe, not found in 2013. Riser on the WS slope has been removed as of the 2016 inspection. (C. Godfrey). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.60), referenced as invert elevation 8.5 feet below the crown].						
FS Date: 11/9/2016						

LM Start	6.50	Rating **	M	Issue No.	1006 (cont)
LM End	6.50	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_50669_34985.jpg



WS view: an abandoned and dismantled CMP riser on WS levee slope.

Photo 2 of 3 : UCIP_SP_2018_50669_34984.jpg



WS view: closer view of an abandoned and dismantled CMP riser on WS levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.50	Rating **	M	Issue No.	1006 (cont)	
LM End	6.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.396449 °	38.396449 °	
				-121.514516 °	-121.514516 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50669 DS_ID:22413 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/09/2016 Per FPIIB Inspector Pavel Kazi, the CMP riser has been removed and the pipe is now exposed. Pipe still requires proper abandonment. (K. Fazel - UCIP)08/30/2013 Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe, 10 feet below the crown. Gate valve on each end, though only one was found on the waterside (WS) in 2013. Pump on the landside (LS), 10 feet from the LS toe, not found in 2013. Riser on the WS slope has been removed as of the 2016 inspection. (C. Godfrey). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.60), referenced as invert elevation 8.5 feet below the crown]. FS Date: 11/9/2016						

Photo 3 of 3 : UCIP_SP_2018_50669_34983.jpg



WS view: an abandoned and dismantled CMP riser with gate valve handle on WS levee slope.

LM Start	6.50	Rating **	U	Issue No.	55
LM End	6.50	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396518 °	38.396518 °
				-121.514530 °	-121.514530 °
DWR ID	DWR_RD0150_02_f_2014_55				
Comment Code					
PI : Pipe					
Inspector Comment					
The pipe gate needs to be covered on the waterside toe of the levee.					

Photo 1 of 1 : SP_2018_RD0150_16_55_20180301_00037.jpg



An open pipe valve was found without a cover on the waterside toe of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.55	Rating **	M	Issue No.	72
LM End	6.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.397235 °	38.397235 °
				-121.514648 °	-121.514648 °
DWR ID	DWR_RD0150_02_s_2018_72				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	6.57	Rating **	M	Issue No.	1007
LM End	6.57	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.397451 °	38.397451 °
				-121.514601 °	-121.514601 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41720					
DS_ID:22425					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to clear dense vegetation on WS.- water					
filtration plant on LS levee toe.- Slide gate on CMP riser on WS.					
FIELD_STRUCT_DESC: 8-inch irrigation discharge pipe of an unknown					
material through the levee, 12 feet below the crown. Gate valve in a					
corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pump					
at the landside (LS) toe. (Joe Gomez). [Additional Reference(s): DWR					
Levee Log, 2005].					
FS Date: 8/30/2013					

Photo 1 of 2 : UCIP_SP_2018_41720_34081.jpg



WS view: CMP riser with gate valve on levee slope. Dense vegetation on levee slope and stream bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.57	Rating **	M	Issue No.	1007 (cont)	
LM End	6.57	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.397451 °	38.397451 °	
				-121.514601 °	-121.514601 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41720						
DS_ID:22425						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to clear dense vegetation on WS.- water filtration plant on LS levee toe.- Slide gate on CMP riser on WS.						
FIELD_STRUCT_DESC: 8-inch irrigation discharge pipe of an unknown material through the levee, 12 feet below the crown. Gate valve in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pump at the landside (LS) toe. (Joe Gomez). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 8/30/2013						

Photo 2 of 2 : UCIP_SP_2018_41720_34080.jpg



LS view: concrete vault, pipe, and pump in water filtration plant.

LM Start	6.57	Rating **	U	Issue No.	64
LM End	6.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.397523 °	38.398000 °
				-121.514658 °	-121.514731 °
DWR ID	DWR_RD0150_02_s_2012_64				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_64_20180301_00045.jpg



Landscaping providing a screen for a residence on landside of levee from LM 6.68 to LM 6.72

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.65	Rating **	M	Issue No.	43
LM End	6.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.398600 °	38.399042 °
				-121.514793 °	-121.514841 °
DWR ID	DWR_RD0150_02_s_2012_43				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping and century plant on landside of the levee.					

Photo 1 of 1 : SP_2018_RD0150_16_43_20180301_00019.jpg



Century plants were found on the landside of the levee looking upstream.

LM Start	6.69	Rating **	M	Issue No.	1008	
LM End	6.69	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.399167 °	38.399167 °	
				-121.514793 °	-121.514793 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41646 DS_ID:22426 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned very old gate valve also found on WS. Rest of pipe should be evaluated due to its age. FIELD_STRUCT_DESC: 9-inch steel irrigation discharge pipe through the levee, invert elevation 9.7 feet below the crown. Gate valve and pump house on the landside (LS). (Retention of an irrigation pumping plant with a centrifugal pump on the LS levee slope with a 9-inch pipe through the levee authorized under Automatic Board Order (ABO) issued as Permit No. 8551, 1973 - Albert Souza). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.79)]. FS Date: 8/30/2013						

Photo 1 of 3 : UCIP_SP_2018_41646_34102.jpg



WS view: inlet steel pipe on stream bank.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.69	Rating **	M	Issue No.	1008 (cont)
LM End	6.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.399167 °	38.399167 °
				-121.514793 °	-121.514793 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41646 DS_ID:22426 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned very old gate valve also found on WS. Rest of pipe should be evaluated due to its age. FIELD_STRUCT_DESC: 9-inch steel irrigation discharge pipe through the levee, invert elevation 9.7 feet below the crown. Gate valve and pump house on the landside (LS). (Retention of an irrigation pumping plant with a centrifugal pump on the LS levee slope with a 9-inch pipe through the levee authorized under Automatic Board Order (ABO) issued as Permit No. 8551, 1973 - Albert Souza). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 40.79)]. FS Date: 8/30/2013					

LM Start	6.69	Rating **	M	Issue No.	1008 (cont)
LM End	6.69	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_41646_34101.jpg



WS view: An abandoned old gate valve on inlet steel pipe on stream bank.

Photo 3 of 3 : UCIP_SP_2018_41646_34100.jpg



LS view: concrete masonry distribution box (top), steel pipe, gate valve, air vent, and pump (left) on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.71	Rating **	M	Issue No.	57
LM End	6.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.399548 °	38.399870 °
				-121.514897 °	-121.514953 °
DWR ID	DWR_RD0150_02_f_2017_57				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_57_20180301_00039.jpg



View of vegetation on the landside of the levee. Fall 2017

LM Start	6.73	Rating **	M	Issue No.	111
LM End	6.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.399838 °	38.399838 °
				-121.514898 °	-121.514898 °
DWR ID	DWR_RD0150_02_s_2018_111				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Possible rodent hole or sinkhole forming on waterside shoulder needs to be repaired.					

Photo 1 of 1 : SP_2018_RD0150_16_111_20180418_00133.jpg



Erosion bank caving waterside looking east.

LM Start	6.76	Rating **	U	Issue No.	60
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.400284 °	38.402613 °
				-121.515019 °	-121.515863 °
DWR ID	DWR_RD0150_02_s_2012_60				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_60_20180301_00043.jpg



Landscaping providing a screen for a residence on the landside of levee from LM 6.93 to LM 7.05

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.80	Rating **	U	Issue No.	1009
LM End	6.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.400835 °	38.400835 °
				-121.515066 °	-121.515066 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50387 DS_ID:22427 EP_NO: 1703 Repair Type: Urgent Crossing Status: Found UCIP Comments: - significant erosion along pipe alignment on LS slope.- pump on concrete pad- service pole on LS slope. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 4.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. Service pole and standpipe on the landside (LS) shoulder. (Plans for the installation of an irrigation pumping plant through the levee authorized under Permit No. 1703, 1952 - Malcolm A. Silva). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/30/2013					

LM Start	6.80	Rating **	U	Issue No.	1009 (cont)
LM End	6.80	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_50387_35002.jpg



WS view: steel pipe, electric conduit, gate valve, and pump on levee slope.

Photo 2 of 3 : UCIP_SP_2018_50387_35001.jpg



WS view: steel inlet pipe in the stream and bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	6.80	Rating **	U	Issue No.	1009 (cont)	
LM End	6.80	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.400835 °		38.400835 °
				-121.515066 °		-121.515066 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50387 DS_ID:22427 EP_NO: 1703 Repair Type: Urgent Crossing Status: Found UCIP Comments: - significant erosion along pipe alignment on LS slope.- pump on concrete pad- service pole on LS slope. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 4.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. Service pole and standpipe on the landside (LS) shoulder. (Plans for the installation of an irrigation pumping plant through the levee authorized under Permit No. 1703, 1952 - Malcolm A. Silva). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/30/2013						

Photo 3 of 3 : UCIP_SP_2018_50387_35000.jpg



WS view: closer view of gate valve and pump on levee slope

LM Start	7.00	Rating **	U	Issue No.	1010	
LM End	7.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.403513 °		38.403513 °
				-121.516162 °		-121.516162 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50386 DS_ID:22429 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - soil erosion along pipe alignment on LS slope.- needs more investigation and mitigation for soil erosion. FIELD_STRUCT_DESC: 8-inch concrete encased steel irrigation discharge pipe through the levee, 10 feet below the crown. Pump on a concrete slab and a slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe through the levee section is encased in reinforced concrete. Concrete standpipe at the landside (LS) toe. (A. Monice). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 41.10), referenced as invert elevation 8.2 feet below the crown]. FS Date: 8/30/2013						

Photo 1 of 3 : UCIP_SP_2018_50386_34162.jpg



WS view: CMP riser with slide gate and pump (right) on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	7.00	Rating **	U	Issue No.	1010 (cont)
LM End	7.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.403513 °	38.403513 °
				-121.516162 °	-121.516162 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50386					
DS_ID:22429					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: - soil erosion along pipe alignment on LS slope.- needs more investigation and mitigation for soil erosion.					
FIELD_STRUCT_DESC: 8-inch concrete encased steel irrigation discharge pipe through the levee, 10 feet below the crown. Pump on a concrete slab and a slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe through the levee section is encased in reinforced concrete. Concrete standpipe at the landside (LS) toe. (A. Monice). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 41.10), referenced as invert elevation 8.2 feet below the crown].					
FS Date: 8/30/2013					

LM Start	7.00	Rating **	U	Issue No.	1010 (cont)
LM End	7.00	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_50386_34161.jpg



WS view: steel intake pipe and pump on levee slope. Dense vegetation on levee slope.

Photo 3 of 3 : UCIP_SP_2018_50386_34160.jpg



WS view: pump on levee slope. Dense vegetation on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	7.01	Rating **	M	Issue No.	58
LM End	7.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403631 °	38.403631 °
				-121.516299 °	-121.516299 °
DWR ID	DWR_RD0150_02_s_2012_58				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_58_20180301_00040.jpg



Landscaping providing a screen for a residence on landside of levee at LM 7.12

LM Start	7.06	Rating **	M	Issue No.	71
LM End	7.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.404338 °	38.404338 °
				-121.516625 °	-121.516625 °
DWR ID	DWR_RD0150_02_s_2018_71				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	7.17	Rating **	A/W	Issue No.	53
LM End	7.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.405933 °	38.406722 °
				-121.517197 °	-121.517617 °
DWR ID	DWR_RD0150_02 f _ 2017_53				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: The flood damage consists of a waterside erosion approximately 311 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.

Site ID No: 289

Site Designation: LMA-115

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/17/2017

Notes: Crown is a paved road. 2 scarps 6 ft deep and about 15 ft long each within site and 6 ft from crown, otherwise erosion was pretty small. Rip rap on 3/4 of slope here, but not full coverage. Area of concern because deeper scarps only extended a short distance.

LM Start	7.17	Rating **	A/W	Issue No.	53 (cont)
LM End	7.23	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_SP_2018_289_2163.jpg

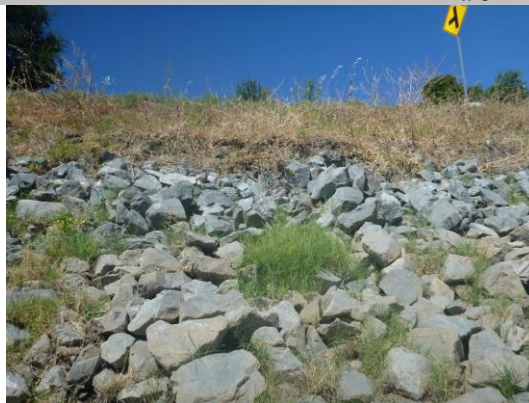


Photo 2 of 3 : LEVAL_SP_2018_289_2165.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	7.17	Rating **	A/W	Issue No.	53 (cont)
LM End	7.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.405933 °	38.406722 °
				-121.517197 °	-121.517617 °
DWR ID	DWR_RD0150_02_f_2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:The flood damage consists of a waterside erosion approximately 311 feet long on the west (right) bank of the Sacramento River. See attached pages for photos.					
Site ID No:289					
Site Designation:LMA-115					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Crown is a paved road. 2 scarps 6 ft deep and about 15 ft long each within site and 6 ft from crown, otherwise erosion was pretty small. Rip rapon 3/4 of slope here, but not full coverage. Area of concern because deeper scarps only extended a short distance.					

Photo 3 of 3 : LEVAL_SP_2018_289_2168.jpg



LM Start	7.18	Rating **	M	Issue No.	69
LM End	7.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.405945 °	38.405945 °
				-121.517432 °	-121.517432 °
DWR ID	DWR_RD0150_02_s_2018_69				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	7.22	Rating **	A/W	Issue No.	32
LM End	7.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.406454 °	38.406454 °
				-121.517732 °	-121.517732 °
DWR ID	DWR_RD0150_02_s_2012_32				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	7.25	Rating **	M	Issue No.	62
LM End	7.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.406920 °	38.407604 °
				-121.517945 °	-121.518332 °
DWR ID	DWR_RD0150_02_s_2018_62				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	7.32	Rating **	M	Issue No.	61
LM End	7.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.407868 °	38.410945 °
				-121.518500 °	-121.520568 °
DWR ID	DWR_RD0150_02_s_2018_61				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	04/17/2018 04/18/2018	Dave Torres

LM Start	7.69	Rating **	M	Issue No.	45
LM End	7.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.412561 °	38.412983 °
				-121.521796 °	-121.522170 °
DWR ID	DWR_RD0150_02_s_2018_45				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	7.77	Rating **	A/W	Issue No.	41
LM End	7.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413563 °	38.413563 °
				-121.522593 °	-121.522593 °
DWR ID	DWR_RD0150_02_s_2013_41				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	7.79	Rating **	M	Issue No.	56
LM End	7.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413705 °	38.413705 °
				-121.522806 °	-121.522806 °
DWR ID	DWR_RD0150_02_s_2012_56				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_16_56_20180301_00038.jpg



Landscaping on landside of levee at LM 7.92

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles
Unit No. 03 Elk Slough	Left	9.41

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/26/2018 - 4/27/2018			
DWR Inspector	Dave Torres			
Accompanied By	David Julian DWR			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	0.01	Rating **	A/W	Issue No.	2
LM End	9.40	Issue Type +	Ob	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.332735 °	38.413893 °
				-121.583625 °	-121.522896 °
DWR ID	DWR_RD0150_03_s_2016_2				
Comment Code					
Inspector Comment					
1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011 - Channel banks are still oversteepened with erosion continuing. 2012 - New cracks and animal holes observed. 2015: No observed changes. [2015 Site ID: ELK_0-2_L]					

No Photos

LM Start	0.11	Rating **	M	Issue No.	43
LM End	0.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.334220 °	38.335449 °
				-121.583381 °	-121.582863 °
DWR ID	DWR_RD0150_03_s_2018_43				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	0.11	Rating **	M	Issue No.	936
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.334233 °	38.334233 °
				-121.583414 °	-121.583414 °
DWR ID	DWR_RD0150_03_s_2012_936				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.39	Rating **	M	Issue No.	951	
LM End	0.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.337928 °	38.337928 °	
				-121.581496 °	-121.581496 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42694 DS_ID:22453 EP_NO: 13612 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned. Proper abandone needs. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel gravity irrigation pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Runyon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013						

Photo 1 of 3 : UCIP_SP_2018_42694_32005.jpg



WS view: pipe and pump on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	0.39	Rating **	M	Issue No.	951 (cont)	
LM End	0.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.337928 °	38.337928 °	
				-121.581496 °	-121.581496 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42694 DS_ID:22453 EP_NO: 13612 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned. Proper abandone needs. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel gravity irrigation pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Runyon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013						

Photo 2 of 3 : UCIP_SP_2018_42694_32004.jpg



WS view: safety valve on steel pipe.

LM Start	0.39	Rating **	M	Issue No.	951 (cont)
LM End	0.39	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_42694_32003.jpg



WS view: abandoned pipe, gate valve, and pump on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

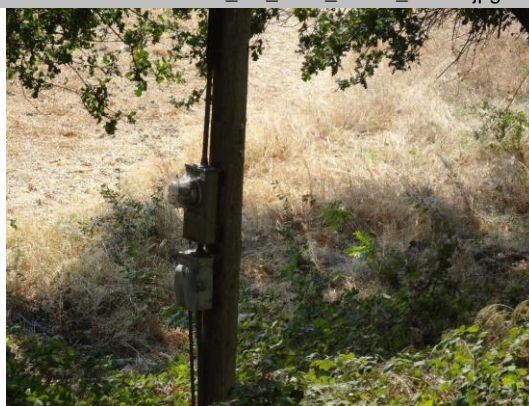
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	0.40	Rating **	M	Issue No.	952	
LM End	0.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.338131 °	38.338131 °	
				-121.581434 °	-121.581434 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42693 DS_ID:22454 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems to be abandoned. Service pole on LS slope. 1" conduit through levee.May need proper abandonment. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Gentner). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013						

Photo 1 of 3 : UCIP_SP_2018_42693_31979.jpg



LS view: service pole on levee slope.

LM Start	0.40	Rating **	M	Issue No.	952 (cont)
LM End	0.40	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_42693_31978.jpg



LS view: no pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	0.40	Rating **	M	Issue No.	952 (cont)	
LM End	0.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.338131 °		38.338131 °
				-121.581434 °		-121.581434 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42693 DS_ID:22454 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems to be abandoned. Service pole on LS slope. 1" conduit through levee.May need proper abandonment. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterside (WS) slope. (Gentner). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/20/2013						

Photo 3 of 3 : UCIP_SP_2018_42693_31977.jpg



WS view: pipe and pump on levee slope.

LM Start	0.81	Rating **	M	Issue No.	44
LM End	0.83	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.343925 °	38.344189 °
				-121.580297 °	-121.580231 °
DWR ID	DWR_RD0150_03_s_2018_44				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	0.92	Rating **	A/W	Issue No.	5
LM End	0.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.345493 °	38.345493 °
				-121.579682 °	-121.579682 °
DWR ID	DWR_RD0150_03_s _ 2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Maintain visibility on levee slopes.					

No Photos

LM Start	1.00	Rating **	M	Issue No.	46
LM End	1.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.346556 °	38.347193 °
				-121.579041 °	-121.578642 °
DWR ID	DWR_RD0150_03_s _ 2018_46				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.00	Rating **	M	Issue No.	75	
LM End	1.05	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.346558 °		38.347193 °
				-121.579039 °		-121.578642 °
DWR ID	DWR_RD0150_03_s _ 2018_75					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side N/A : Not Applicable		A : Acceptable		Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable		Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable		En : Enforcement	
		N : Not Inspected/Rated			
		C : Corrected			
		A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	1.35	Rating **	M	Issue No.	953
LM End	1.35	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.347489 °	38.347489 °
				-121.573302 °	-121.573302 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19112 DS_ID:22433 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No handrail on wooden walkway. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 8 feet below the crown. Pump in a pump house on the waterside (WS) slope. Service pole and steel distribution box on the landside (LS) slope. (A. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.39)]. FS Date: 8/20/2013					

LM Start	1.35	Rating **	M	Issue No.	953 (cont)
LM End	1.35	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_19112_32044.jpg



WS view: pipe on levee slope and pump house in channel.

Photo 2 of 3 : UCIP_SP_2018_19112_32043.jpg



WS view: concrete headwall and exposed pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	1.35	Rating **	M	Issue No.	953 (cont)	
LM End	1.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.347489 °		38.347489 °
				-121.573302 °		-121.573302 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19112 DS_ID:22433 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No handrail on wooden walkway. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, invert elevation 8 feet below the crown. Pump in a pump house on the waterside (WS) slope. Service pole and steel distribution box on the landside (LS) slope. (A. Pylman). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.39)]. FS Date: 8/20/2013						

Photo 3 of 3 : UCIP_SP_2018_19112_32042.jpg



WS view: pipe, wooden walkway and pump house in channel.

LM Start	1.42	Rating **	A/W	Issue No.	70
LM End	1.42	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.348132 °	38.348132 °
				-121.572368 °	-121.572368 °
DWR ID	DWR_RD0150_03_f_2016_70				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_70_20180301_00067.jpg



View of an erosion on the waterside slope of the levee. Fall 2016

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	1.42	Rating **	A/W	Issue No.	33
LM End	1.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.348142°	38.348411°
				-121.572319°	-121.572339°
DWR ID	DWR_RD0150_03_f_2017_33				
Comment Code					

Inspector Comment

Levee Evaluation Comments

Description: Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 98 feet long. See attached pages for photos.

Site ID No: 293

Site Designation: LMA-119

Repair Type: Erosion

Rating: Critical

Field Date: 7/19/2017

Notes: Site is serious because lower 2/3 of slope is near vertical and site is located on a bend.

LM Start	1.42	Rating **	A/W	Issue No.	33 (cont)
LM End	1.44	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_SP_2018_293_4065.jpg

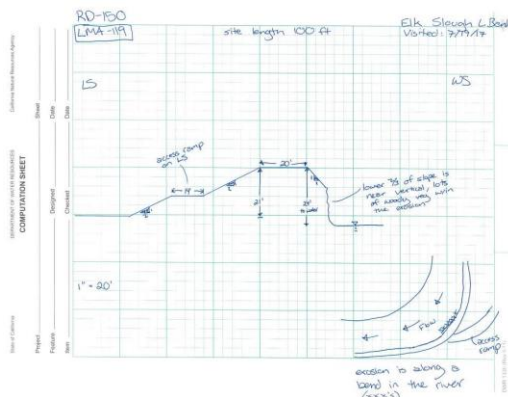
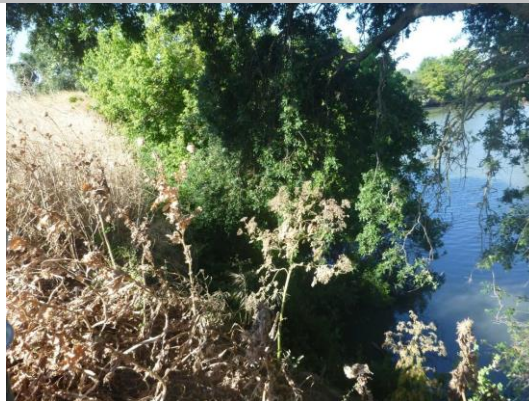


Photo 2 of 3 : LEVAL_SP_2018_293_2194.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	1.55	Rating **	A/W	Issue No.	34
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.349949 °		
			-121.572659 °		
DWR ID	DWR_RD0150_03_f_2017_34				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:211					
Site Designation:386-93					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	1.78	Rating **	M	Issue No.	954
LM End	1.78	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.353180 °	38.353180 °	
			-121.572907 °	-121.572907 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19137					
DS_ID:22434					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Small depression on WS slope due to leak from pump. Pipe opens on LS ditch/depression.					
FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.4 feet below the crown. Pump, gate valve, and service pole on the waterside (WS) slope. (W. Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.82), 7-inch pipe referenced].					
FS Date: 8/20/2013					

Photo 1 of 3 : UCIP_SP_2018_19137_32108.jpg



WS view: exposed pipe and power pole on levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	1.78	Rating **	M	Issue No.	954 (cont)	
LM End	1.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.353180 °	38.353180 °	
				-121.572907 °	-121.572907 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19137						
DS_ID:22434						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Small depression on WS slope due to leak from pump. Pipe opens on LS ditch/depression.						
FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.4 feet below the crown. Pump, gate valve, and service pole on the waterside (WS) slope. (W. Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 1.82), 7-inch pipe referenced].						
FS Date: 8/20/2013						

Photo 2 of 3 : UCIP_SP_2018_19137_32107.jpg



WS view: exposed pipe on levee slope.

LM Start	1.78	Rating **	M	Issue No.	954 (cont)
LM End	1.78	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_19137_32106.jpg



WS view: pipe and slant pump on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	1.78	Rating **	M	Issue No.	50
LM End	1.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.353249 °	38.353249 °
				-121.572848 °	-121.572848 °
DWR ID	DWR_RD0150_03_s_2012_50				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairs are dug next to the pipe.					

Photo 1 of 1 : SP_2018_RD0150_17_50_20180301_00044.jpg



Steps were dug next to the pipe and also erosion was found near the vicinity of the pipe on the waterside slope of the levee looking upstream.

LM Start	1.83	Rating **	M	Issue No.	85	
LM End	1.83	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.353761 °		38.353761 °
				-121.572390 °		-121.572390 °
DWR ID	DWR_RD0150_03_s_2016_85					
Comment Code						
TR : Tree or limb						
Inspector Comment						

Photo 1 of 1 : SP_2018_RD0150_17_85_20180301_00085.jpg



View of broken tree trunk on the waterside slope of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.29	Rating **	A/W	Issue No.	37
LM End	2.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.354103 °	38.354211 °
				-121.564850 °	-121.564631 °
DWR ID	DWR_RD0150_03_f_2017_37				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 75 feet long. See attached pages for photos.					
Site ID No:294					
Site Designation:LMA-120					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/19/2017					
Notes: Area of concern because erosion is not too far into the levee prism and looks similar to the rest of the levee outside of the site.					
Crown is a paved road.					

Photo 1 of 3 : LEVAL_SP_2018_294_2272.jpg



LM Start	2.29	Rating **	A/W	Issue No.	37 (cont)
LM End	2.30	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_294_2275.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.29	Rating **	A/W	Issue No.	37 (cont)	
LM End	2.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.354103 °	38.354211 °	
				-121.564850 °	-121.564631 °	
DWR ID	DWR_RD0150_03_f_2017_37					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Instability, cracking, and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 75 feet long. See attached pages for photos.						
Site ID No:294						
Site Designation:LMA-120						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/19/2017						
Notes: Area of concern because erosion is not too far into the levee prism and looks similar to the rest of the levee outside of the site.						
Crown is a paved road.						

Photo 3 of 3 : LEVAL_SP_2018_294_2277.jpg



LM Start	2.31	Rating **	M	Issue No.	78
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.354286 °	38.354286 °
				-121.564494 °	-121.564494 °
DWR ID	DWR_RD0150_03_s_2012_78				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
New tree was planted on the landside slope. Remove trees smaller than 4-inches in diameter at chest height.					

Photo 1 of 4 : SP_2018_RD0150_17_78_20180301_00073.jpg



Updated picture of the trees on the landside of the levee during fall 2017 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.31	Rating **	M	Issue No.	78 (cont)	
LM End	2.31	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Trim / Thin Trees			38.354286 °	38.354286 °	
				-121.564494 °	-121.564494 °	
DWR ID	DWR_RD0150_03_s_2012_78					
Comment Code						
T2 : Thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
New tree was planted on the landside slope. Remove trees smaller than 4-inches in diameter at chest height.						

Photo 2 of 4 : SP_2018_RD0150_17_78_20180301_00074.jpg



Updated picture of the trees on the landside of the levee during spring 2015 inspection.

LM Start	2.31	Rating **	M	Issue No.	78 (cont)
LM End	2.31	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP_2018_RD0150_17_78_20180301_00075.jpg



Several newly planted trees were found on the landside slope of the levee looking upstream during the fall 2013 inspection.

LM Start	2.31	Rating **	M	Issue No.	78 (cont)
LM End	2.31	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : SP_2018_RD0150_17_78_20180301_00076.jpg



View of the newly planted tree on the landside slope of the levee during spring 2014 inspection.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

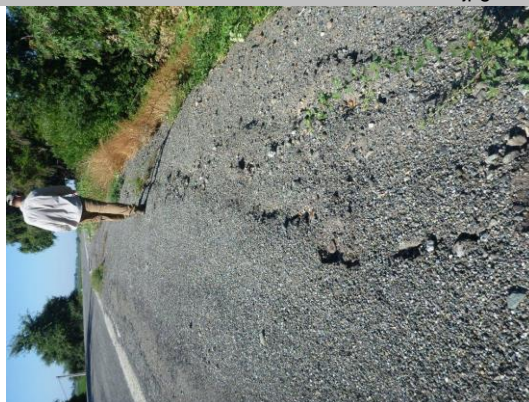
LM Start	2.51	Rating **	A/W	Issue No.	38
LM End	2.52	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.356231 °	38.356422 °
				-121.561917 °	-121.561783 °
DWR ID	DWR_RD0150_03_f_2017_38				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.					
Site ID No:296					
Site Designation:LMA-122					
Repair Type: Stability					
Rating:Critical					
Field Date:7/19/2017					
Notes: Crown is a paved road. Serious because erosion cuts into levee prism significantly (lower 2/3 - 1/2 is near vertical) and longitudinal cracking observed above erosion, but damage does not extend into crown.					

Photo 1 of 3 : LEVAL_SP_2018_296_2285.jpg



LM Start	2.51	Rating **	A/W	Issue No.	38 (cont)
LM End	2.52	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_296_2286.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

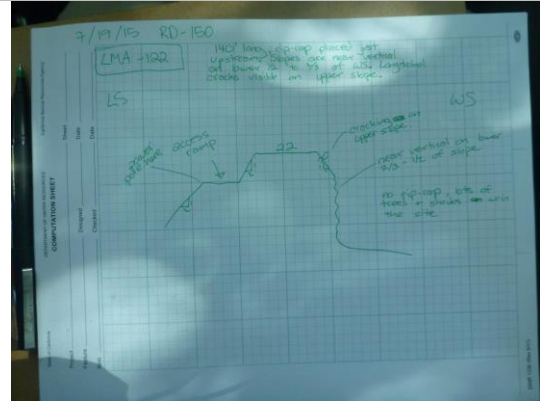
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.51	Rating **	A/W	Issue No.	38 (cont)	
LM End	2.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.356231 °	38.356422 °	
				-121.561917 °	-121.561783 °	
DWR ID	DWR_RD0150_03_f_2017_38					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.						
Site ID No:296						
Site Designation:LMA-122						
Repair Type: Stability						
Rating:Critical						
Field Date:7/19/2017						
Notes: Crown is a paved road. Serious because erosion cuts into levee prism significantly (lower 2/3 - 1/2 is near vertical) and longitudinal cracking observed above erosion, but damage does not extend into crown.						

Photo 3 of 3 : LEVAL_SP_2018_296_2292.jpg



LM Start	2.52	Rating **	A/W	Issue No.	54
LM End	2.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.356398 °	38.356398 °
				-121.561834 °	-121.561834 °
DWR ID	DWR_RD0150_03_s_2017_54				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_54_20180301_00050.jpg



View of an erosion on the waterside slope of the levee looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.72	Rating **	A/W	Issue No.	42
LM End	2.73	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.359256 °	38.359461 °
				-121.561239 °	-121.561275 °
DWR ID	DWR_RD0150_03_f_2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 75 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos					
Site ID No:297					
Site Designation:LMA-123					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. 20 ft of cracking observed maximum within the site, but lower 1/4 of slope is near vertical. Lower priority because it is not too much worse than the surrounding levees.					

Photo 1 of 3 : LEVAL_SP_2018_297_1928.jpg



LM Start	2.72	Rating **	A/W	Issue No.	42 (cont)
LM End	2.73	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_297_1931.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

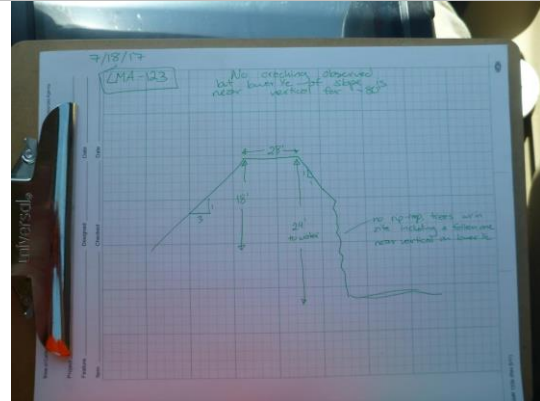
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.72	Rating **	A/W	Issue No.	42 (cont)
LM End	2.73	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.359256 °	38.359461 °
				-121.561239 °	-121.561275 °
DWR ID	DWR_RD0150_03_f_2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 75 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos					
Site ID No:297					
Site Designation:LMA-123					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. 20 ft of cracking observed maximum within the site, but lower 1/4 of slope is near vertical. Lower priority because it is not too much worse than the surrounding levees.					

Photo 3 of 3 : LEVAL_SP_2018_297_1933.jpg



LM Start	2.74	Rating **	M	Issue No.	45
LM End	2.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.359594 °	38.359808 °
				-121.561308 °	-121.561369 °
DWR ID	DWR_RD0150_03_f_2017_45				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.					
Site ID No:298					
Site Designation:LMA-124					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: No cracking observed, but there is runoff erosion along the entire WS slope here. Crown is a paved road. Area of concern because erosion was caused by runoff and was less severe than other sites along Elk Slough.					

Photo 1 of 3 : LEVAL_SP_2018_298_1924.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

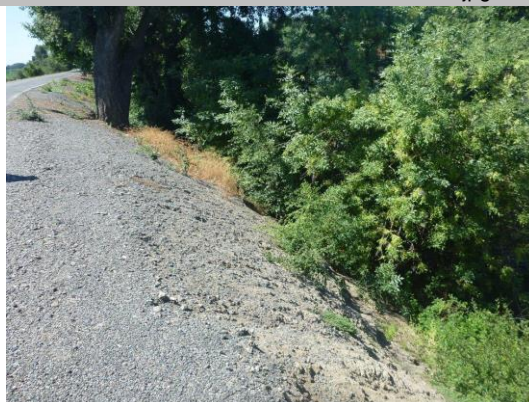
LM Start	2.74	Rating **	M	Issue No.	45 (cont)	
LM End	2.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.359594 °		38.359808 °
				-121.561308 °		-121.561369 °
DWR ID	DWR_RD0150_03_f_2017_45					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.						
Site ID No:298						
Site Designation:LMA-124						
Repair Type: Stability						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: No cracking observed, but there is runoff erosion along the entire WS slope here. Crown is a paved road. Area of concern because erosion was caused by runoff and was less severe than other sites along Elk Slough.						

Photo 2 of 3 : LEVAL_SP_2018_298_1925.jpg



LM Start	2.74	Rating **	M	Issue No.	45 (cont)
LM End	2.76	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL_SP_2018_298_1926.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.75	Rating **	A/W	Issue No.	62
LM End	2.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.359693 °	38.359693 °
				-121.561354 °	-121.561354 °
DWR ID	DWR_RD0150_03_s_2017_62				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Run off due to rain.					

Photo 1 of 1 : SP_2018_RD0150_17_62_20180301_00059.jpg



View of slope instability on the waterside slope of the levee looking downstream.

LM Start	2.80	Rating **	A/W	Issue No.	53
LM End	2.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.360367 °	38.360544 °
				-121.561592 °	-121.561683 °
DWR ID	DWR_RD0150_03_f_2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 70 feet long and 12 feet down from the levee crest. See attached pages for photos					
Site ID No:299					
Site Designation:LMA-125					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. Cracking on upper 1/3 of slope. Lower 1/2 of slope is near vertical. Area of concern because erosion is less severe than other sites along Elk Slough.					

Photo 1 of 3 : LEVAL_SP_2018_299_2105.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

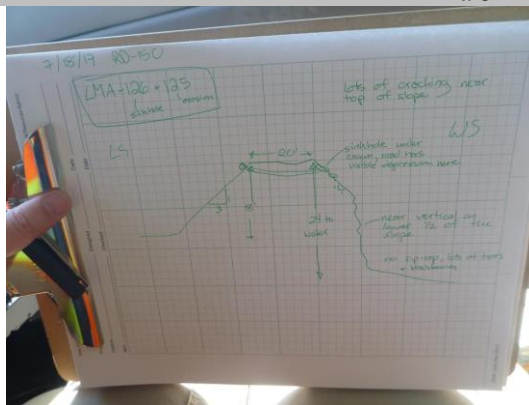
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.80	Rating **	A/W	Issue No.	53 (cont)
LM End	2.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.360367 °	38.360544 °
				-121.561592 °	-121.561683 °
DWR ID	DWR_RD0150_03_f_2017_53				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 70 feet long and 12 feet down from the levee crest. See attached pages for photos					
Site ID No:299					
Site Designation:LMA-125					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Crown is a paved road. Cracking on upper 1/3 of slope. Lower 1/2 of slope is near vertical. Area of concern because erosion is less severe than other sites along Elk Slough.					

Photo 2 of 3 : LEVAL_SP_2018_299_2106.jpg



Photo 3 of 3 : LEVAL_SP_2018_299_2108.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.80	Rating **	M	Issue No.	79
LM End	2.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.360372 °	38.360397 °
				-121.561594 °	-121.561606 °
DWR ID	DWR_RD0150_03_f _ 2017_79				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 7 February 2017, a sinkhole 3 feet wide by 3 feet deep was observed at the levee crest. See attached pages for photos.					
Site ID No:300					
Site Designation:LMA-126					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Sinkhole os present on both sides of crown and crown has a dip of about 1 ft on the WS half. Crown is a paved road here. Sink hole appears to be caused by a rodent hole so it was rated lower priority because it is a general maintenance issue. See LMA-125 for cross section.					

Photo 1 of 3 : LEVAL_SP_2018_300_2094.jpg



LM Start	2.80	Rating **	M	Issue No.	79 (cont)
LM End	2.80	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_300_2095.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

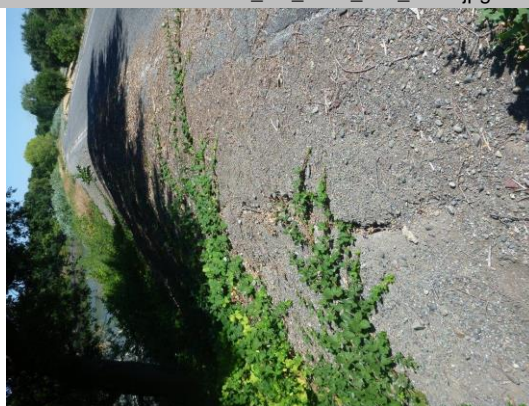
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.80	Rating **	M	Issue No.	79 (cont)	
LM End	2.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.360372 °	38.360397 °	
				-121.561594 °	-121.561606 °	
DWR ID	DWR_RD0150_03_f_2017_79					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 7 February 2017, a sinkhole 3 feet wide by 3 feet deep was observed at the levee crest. See attached pages for photos.						
Site ID No:300						
Site Designation:LMA-126						
Repair Type: Stability						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Sinkhole os present on both sides of crown and crown has a dip of about 1 ft on the WS half. Crown is a paved road here. Sink hole appears to be caused by a rodent hole so it was rated lower priority because it is a general maintenance issue. See LMA-125 for cross section.						

Photo 3 of 3 : LEVAL_SP_2018_300_2099.jpg



LM Start	2.80	Rating **	A/W	Issue No.	35
LM End	2.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.360432 °	38.360432 °
				-121.561644 °	-121.561644 °
DWR ID	DWR_RD0150_03_s_2013_35				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_35_20180301_00020.jpg



Updated picture of the erosion on the waterside of the levee during spring 2017 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.80	Rating **	A/W	Issue No.	35 (cont)	
LM End	2.80	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.360432 °		38.360432 °
				-121.561644 °		-121.561644 °
DWR ID	DWR_RD0150_03_s_2013_35					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						

Photo 2 of 2 : SP_2018_RD0150_17_35_20180301_00021.jpg



View of the erosion on the waterside of the levee during spring 2015 inspection.

LM Start	2.81	Rating **	U	Issue No.	71
LM End	2.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.360477 °	38.360477 °
				-121.561625 °	-121.561625 °
DWR ID	DWR_RD0150_03_s_2017_71				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_71_20180430_00198.jpg



Rodent hole landside looking west.

LM Start	2.81	Rating **	U	Issue No.	71 (cont)
LM End	2.81	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2018_RD0150_17_71_20180301_00068.jpg



View of a rodent hole on the landside shoulder of the levee looking upstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	2.82	Rating **	M	Issue No.	17
LM End	2.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.360621 °	38.360621 °
				-121.561762 °	-121.561762 °
DWR ID	DWR_RD0150_03_s_2012_17				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove down tree on the waterside toe of the levee.					

Photo 1 of 1 : SP_2018_RD0150_17_17_20180301_00007.jpg



View of tree stumps and downed tree on the waterward slope.

LM Start	2.95	Rating **	M	Issue No.	86
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362431 °	38.362431 °
				-121.562265 °	-121.562265 °
DWR ID	DWR_RD0150_03_s_2018_86				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove downed tree on waterside slope.					

Photo 1 of 1 : SP_2018_RD0150_17_86_20180430_00199.jpg



Downed tree waterside looking southwest.

LM Start	3.21	Rating **	M	Issue No.	100
LM End	3.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.363339 °	38.363339 °
				-121.558654 °	-121.558654 °
DWR ID	DWR_RD0150_03_s_2018_100				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.28	Rating **	M	Issue No.	113
LM End	3.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362992 °	38.362992 °
				-121.557275 °	-121.557275 °
DWR ID	DWR_RD0150_03_f_2013_113				
Comment Code					
PO : Pole					
Inspector Comment					
Unused pole on the landside shoulder of the levee					

No Photos

LM Start	3.31	Rating **	M	Issue No.	40
LM End	3.31	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363008 °	38.363008 °
				-121.556751 °	-121.556751 °
DWR ID	DWR_RD0150_03_s_2013_40				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_40_20180301_00033.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

LM Start	3.31	Rating **	M	Issue No.	40 (cont)
LM End	3.31	Issue Type +	Ob	Location *	WS

Photo 2 of 2 : SP_2018_RD0150_17_40_20180301_00034.jpg



Updated picture of the erosion on the waterside of the levee looking upstream during fall 2014 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.34	Rating **	M	Issue No.	27
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.363147 °	38.363147 °
				-121.556190 °	-121.556190 °
DWR ID	DWR_RD0150_03_s_2012_27				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on the waterside toe of the levee.					

Photo 1 of 1 : SP_2018_RD0150_17_27_20180301_00011.jpg



View of downed tree on the waterside slope looking upstream.

LM Start	3.36	Rating **	M	Issue No.	102
LM End	3.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363254 °	38.363254 °
				-121.555889 °	-121.555889 °
DWR ID	DWR_RD0150_03_s_2018_102				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

LM Start	3.37	Rating **	A/W	Issue No.	76
LM End	3.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			38.363380 °	38.364325 °
				-121.555715 °	-121.555330 °
DWR ID	DWR_RD0150_03_s_2017_76				
Comment Code					
Inspector Comment					
LMA or the pipe owner has placed new riprap on the waterside slope.					

Photo 1 of 1 : SP_2018_RD0150_17_76_20180301_00072.jpg



View of the new riprap on the waterside slope of the levee looking downstream. Spring 2017

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.39	Rating **	U	Issue No.	955
LM End	3.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.363520 °	38.363520 °
				-121.555571 °	-121.555571 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51467 DS_ID:22439 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 03/30/2017 Riprap laid around pipe on WS slope. Source of erosion has not been addressed, nor has LS toe been repaired. Update and photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Sprint 2017 Inspections. (K. Fazel - UCIP) 11/10/2016 Erosion at LS toe has progressed since last inspection and is now severe. Photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Fall 2016 Inspections. Crossing has been upgraded from Non-Urgent to Urgent. (K. Fazel - UCIP)08/20/2013 Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 3.7 feet below the crown. Service pole on the waterside (WS) slope. Pump on a piling structure in the stream. Concrete standpipe at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 3.45)]. FS Date: 4/6/2017					

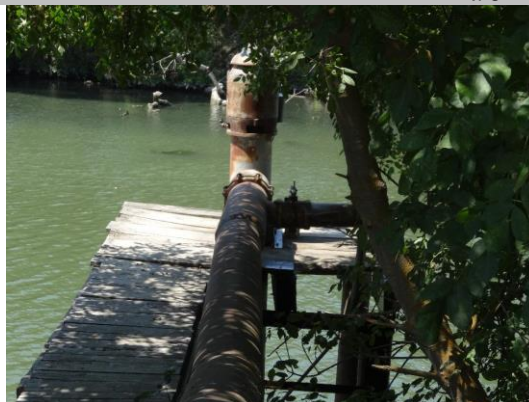
LM Start	3.39	Rating **	U	Issue No.	955 (cont)
LM End	3.39	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_51467_35013.jpg



WS view: exposed pipe, walkway, service pole on levee slope and pump support in channel.

Photo 2 of 3 : UCIP_SP_2018_51467_35012.jpg



WS view: steel pipe & pump, walkway, pump support in the channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.39	Rating **	U	Issue No.	955 (cont)	
LM End	3.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.363520 °	38.363520 °	
				-121.555571 °	-121.555571 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51467 DS_ID:22439 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 03/30/2017 Riprap laid around pipe on WS slope. Source of erosion has not been addressed, nor has LS toe been repaired. Update and photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Sprint 2017 Inspections. (K. Fazel - UCIP) 11/10/2016 Erosion at LS toe has progressed since last inspection and is now severe. Photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Fall 2016 Inspections. Crossing has been upgraded from Non-Urgent to Urgent. (K. Fazel - UCIP)08/20/2013 Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, invert elevation 3.7 feet below the crown. Service pole on the waterside (WS) slope. Pump on a piling structure in the stream. Concrete standpipe at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (RM 3.45)]. FS Date: 4/6/2017						

Photo 3 of 3 : UCIP_SP_2018_51467_35011.jpg



LS view: exposed pipe on levee slope.

LM Start	3.39	Rating **	U	Issue No.	115
LM End	3.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363540 °	38.363540 °
				-121.555554 °	-121.555554 °
DWR ID	DWR_RD0150_03_f_2013_115				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion (ditch) was found on the landside toe of the levee.					

Photo 1 of 3 : SP_2018_RD0150_17_115_20180301_00124.jpg



Updated picture of the ditch on the landside toe of the levee. Fall 2016

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.39	Rating **	U	Issue No.	115 (cont)	
LM End	3.39	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.363540 °	38.363540 °	
				-121.555554 °	-121.555554 °	
DWR ID	DWR_RD0150_03_f_2013_115					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion (ditch) was found on the landside toe of the levee.						

Photo 2 of 3 : SP_2018_RD0150_17_115_20180301_00125.jpg



Updated picture of the ditch on the landside toe of the levee during fall 2015 inspection.

LM Start	3.39	Rating **	U	Issue No.	115 (cont)
LM End	3.39	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP_2018_RD0150_17_115_20180301_00126.jpg



A drainage ditch with depth of 4 feet and width of 15 feet was found on the landside toe of the levee. The picture was taken from the landside slope looking upstream during the fall 2013 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.44	Rating **	M	Issue No.	47
LM End	3.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.364251 °	38.364772 °
				-121.555321 °	-121.555343 °
DWR ID	DWR_RD0150_03_s_2012_47				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_47_20180301_00041.jpg



Landscaping & garden on landward slope of levee at LM 3.50 to LM 3.54.

LM Start	3.45	Rating **	A/W	Issue No.	91
LM End	3.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.364450 °	38.364567 °
				-121.555331 °	-121.555333 °
DWR ID	DWR_RD0150_03_f_2017_91				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 11 January 2017 and 7 February 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 43 feet long and 11 feet down from the levee crest. See attached pages for photos.					
Site ID No:302					
Site Designation:LMA-128					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Erosion on lower 2/3 of slope. Crown is a paved road. Area of concern because erosion was not as severe and there was lots of vegetation on the lower slope indicating damage may be older. WS slope has been rocked just downstream of this site.					

Photo 1 of 3 : LEVAL_SP_2018_302_2086.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.45	Rating **	A/W	Issue No.	91 (cont)	
LM End	3.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.364450 °	38.364567 °	
				-121.555331 °	-121.555333 °	
DWR ID	DWR_RD0150_03_f_2017_91					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 11 January 2017 and 7 February 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 43 feet long and 11 feet down from the levee crest. See attached pages for photos.						
Site ID No:302						
Site Designation:LMA-128						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Erosion on lower 2/3 of slope. Crown is a paved road. Area of concern because erosion was not as severe and there was lots of vegetation on the lower slope indicating damage may be older. WS slope has been rocked just downstream of this site.						

Photo 2 of 3 : LEVAL_SP_2018_302_2088.jpg



LM Start	3.45	Rating **	A/W	Issue No.	91 (cont)
LM End	3.46	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL_SP_2018_302_2089.jpg



* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.66	Rating **	M	Issue No.	956	
LM End	3.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.367213 °	38.367213 °	
				-121.555273 °	-121.555273 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50202						
DS_ID:22440						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 07/07/2016: Unable to locate evidence of major depression of WS slope. Only slight depression on WS slope above pump. Though this is an up-and-over pipe, no positive closure device found. Inlet in LS standpipe is capped with a board. If no longer in use, needs to be abandoned properly. Siphon breaker/vent on WS needs a cover. Wave-wash run-up along river bank characteristic of much of Elk Slough. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)08/20/2013:Levee damage.Gate valve on WS not found. (P. Amatya - DWR)						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5.9 feet below the crown. Slant pump on the waterside (WS) slope. Vent/siphon breaker at the apex of the pipe on the WS. Concrete platform lies next to the pump on the WS. Concrete standpipe and service pole with meter at the landside (LS) toe. Property owner is Ken Pylman at (916) 775-1066. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 3.73)].						
FS Date: 7/7/2016						

LM Start	3.66	Rating **	M	Issue No.	956 (cont)
LM End	3.66	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_50202_35018.jpg



WS view: steel pipe and pump on levee slope.

Photo 2 of 3 : UCIP_SP_2018_50202_35021.jpg



WS view: steel pipe with safety valve (marked) on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.66	Rating **	M	Issue No.	956 (cont)	
LM End	3.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.367213 °	38.367213 °	
				-121.555273 °	-121.555273 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50202 DS_ID:22440 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/07/2016: Unable to locate evidence of major depression of WS slope. Only slight depression on WS slope above pump. Though this is an up-and-over pipe, no positive closure device found. Inlet in LS standpipe is capped with a board. If no longer in use, needs to be abandoned properly. Siphon breaker/vent on WS needs a cover. Wave-wash run-up along river bank characteristic of much of Elk Slough. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)08/20/2013:Levee damage.Gate valve on WS not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 5.9 feet below the crown. Slant pump on the waterside (WS) slope. Vent/siphon breaker at the apex of the pipe on the WS. Concrete platform lies next to the pump on the WS. Concrete standpipe and service pole with meter at the landside (LS) toe. Property owner is Ken Pylman at (916) 775-1066. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 3.73)]. FS Date: 7/7/2016						

Photo 3 of 3 : UCIP_SP_2018_50202_35017.jpg



WS view: soil erosion (depression) on levee slope.

LM Start	3.79	Rating **	M	Issue No.	116
LM End	3.79	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.367535 °	38.367535 °
				-121.552815 °	-121.552815 °
DWR ID	DWR_RD0150_03_f_2013_116				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_116_20180301_00127.jpg



View of slope instability on the waterside of the levee. Fall 2016

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	3.93	Rating **	U	Issue No.	106
LM End	3.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.368874 °	38.369025 °
				-121.551369 °	-121.551401 °
DWR ID	DWR_RD0150_03_s_2018_106				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_106_20180430_00200.jpg



Vegetation landside looking south.

LM Start	4.02	Rating **	M	Issue No.	93
LM End	4.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.370125 °	38.370125 °
				-121.552030 °	-121.552030 °
DWR ID	DWR_RD0150_03_s_2016_93				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on the waterside toe of the levee.					

Photo 1 of 1 : SP_2018_RD0150_17_93_20180301_00095.jpg



An erosion was found on the waterside toe of the levee.

LM Start	4.36	Rating **	A/W	Issue No.	126
LM End	4.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374191 °	38.374191 °
				-121.549818 °	-121.549818 °
DWR ID	DWR_RD0150_03_f_2017_126				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A tree fell on the channel, and tree root might erode the waterside toe of the levee.					

Photo 1 of 1 : SP_2018_RD0150_17_126_20180301_00145.jpg



View of a fallen tree on the waterside toe of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.38	Rating **	M	Issue No.	51
LM End	4.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374269 °	38.374269 °
				-121.549385 °	-121.549385 °
DWR ID	DWR_RD0150_03_s_2012_51				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_51_20180301_00045.jpg



Updated picture of the pruning pile on the landside of the levee looking upstream during the fall 2013 inspection.

LM Start	4.39	Rating **	A/W	Issue No.	98
LM End	4.43	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.374278 °	38.374278 °
				-121.549167 °	-121.548511 °
DWR ID	DWR_RD0150_03_f_2017_98				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Between 11 and 19 January 2017, waterside instability and erosion were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long, 7 feet below the levee crest, and includes a fallen tree and exposed root ball in the levee slope. See attached pages for photos.					
Site ID No:304					
Site Designation:LMA-130					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: Crown is a paved road. Near vertical on lower 1/2 of slope oncluding a fallen tree with exposed root ball. Serious because sloughing cuts into already oversteepened prism significantly and visible longitudinal cracking near crown.					

Photo 1 of 3 : LEVAL_SP_2018_304_2072.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.47	Rating **	A/W	Issue No.	108
LM End	4.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.374314 °	38.374344 °
				-121.547753 °	-121.547447 °
DWR ID	DWR_RD0150_03_f _ 2017_108				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Between 11 January 2017 and 7 February 2017, instability, cracking, and erosion of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 88 feet long. See attached pages for photos.					
Site ID No:305					
Site Designation:LMA-131					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: Crown is a paved road. Near vertical sloughing on the lower 2/3 of the prism. House and ramp/driveway on the LS. Serious because sloughing cuts into already oversteepened prism significantly.					

Photo 1 of 2 : LEVAL_SP_2018_305_2066.jpg



LM Start	4.47	Rating **	A/W	Issue No.	108 (cont)
LM End	4.49	Issue Type +	Ma	Location *	

Photo 2 of 2 : LEVAL_SP_2018_305_2067.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.49	Rating **	A/W	Issue No.	80
LM End	4.49	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.374355 °	38.374355 °
				-121.547436 °	-121.547436 °
DWR ID	DWR_RD0150_03_s_2014_80				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_80_20180301_00080.jpg



View of an erosion site on the waterside toe of the levee looking upstream.

LM Start	4.49	Rating **	M	Issue No.	94
LM End	4.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.374367 °	38.374367 °
				-121.547327 °	-121.547327 °
DWR ID	DWR_RD0150_03_s_2012_94				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_94_20180301_00096.jpg



View of landscape on the landside shoulder of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.54	Rating **	C	Issue No.	39
LM End	4.57	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.374483 °	38.374550 °	
			-121.546472 °	-121.546025 °	
DWR ID	DWR_RD0150_03_f_2017_39				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: On 11 and 15 January 2017, waterside instability and cracking were observed on the east (left) bank of Elk Slough. The site is approximately 80 feet long and 5 to 10 feet down from the levee crest. See attached pages for photos.</p> <p>Site ID No: 306</p> <p>Site Designation: LMA-132</p> <p>Repair Type: Stability</p> <p>Rating: Critical</p> <p>Field Date: 7/18/2017</p> <p>Notes: Crown is a paved road. Sloughing on the lower 2/3 of WS slope and longitudinal cracking at the hinge. Serious because sloughing cuts into already oversteepened prism significantly.</p>					

No Photos

LM Start	4.55	Rating **	C	Issue No.	97
LM End	4.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.374554 °	38.374554 °	
			-121.546245 °	-121.546245 °	
DWR ID	DWR_RD0150_03_s_2017_97				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.63	Rating **	M	Issue No.	957	
LM End	4.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.374934 °	38.374934 °	
				-121.545029 °	-121.545029 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19281 DS_ID:22444 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - service pole on LS. 1" conduit on WS.- levee toe cut out on landside.- walkway and gate. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.8 feet below the crown. Pump on pilings in the stream. Concrete standpipe at the landside (LS) toe. (P. Cook). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.71)]. FS Date: 8/20/2013						

LM Start	4.63	Rating **	M	Issue No.	957 (cont)
LM End	4.63	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_19281_32541.jpg



WS view: vertical pump on deck.

Photo 2 of 3 : UCIP_SP_2018_19281_32540.jpg



WS view: 1-inch GI conduit (left) and steel pipe (right)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.63	Rating **	M	Issue No.	957 (cont)	
LM End	4.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.374934 °	38.374934 °	
				-121.545029 °	-121.545029 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19281						
DS_ID:22444						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - service pole on LS. 1" conduit on WS.- levee toe cut out on landside.- walkway and gate.						
FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 3.8 feet below the crown. Pump on pilings in the stream. Concrete standpipe at the landside (LS) toe. (P. Cook).						
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.71)].						
FS Date: 8/20/2013						

Photo 3 of 3 : UCIP_SP_2018_19281_32539.jpg



WS view: safety valve on steel pipe.

LM Start	4.65	Rating **	C	Issue No.	109
LM End	4.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.375114 °	38.375356 °
				-121.544692 °	-121.544289 °
DWR ID	DWR_RD0150_03_f_2017_109				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Between 11 January 2017 and 7 February 2017, instability, cracking, and erosion of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 145 feet long. See attached pages for photos.					
Site ID No:307					
Site Designation:LMA-133					
Repair Type: Erosion					
Rating:Critical					
Field Date:7/18/2017					
Notes: Crown is a paved road. Sloughing from 5-10 ft below the crown, then vertical to the water. Longitudinal cracks on upper slope. Serious because most of the slope is impacted by the damage.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.79	Rating **	M	Issue No.	101
LM End	4.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.376562 °	38.376562 °
				-121.543016 °	-121.543016 °
DWR ID	DWR_RD0150_03_s_2017_101				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_101_20180301_00104.jpg



View of an erosion on the waterside toe of the levee.

LM Start	4.85	Rating **	C	Issue No.	110
LM End	4.90	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.377217 °	38.377664 °
				-121.542058 °	-121.541447 °
DWR ID	DWR_RD0150_03_f _ 2017_110				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Between 11 January 2017 and 7 February 2017, instability, cracking, and erosion of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 240 feet long. See attached pages for photos.					
Site ID No:308					
Site Designation:LMA-134					
Repair Type: Erosion					
Rating:Critical					
Field Date:7/19/2017					
Notes: Crown is a paved road. Serious because the erosion cuts into the prism significantly and longitudinal cracking observed. The worst erosion is 5 ft from the crown. One irrigation pipe within site.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.87	Rating **	C	Issue No.	103
LM End	4.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.377378 °	38.377378 °
				-121.541913 °	-121.541913 °
DWR ID	DWR_RD0150_03_s_2017_103				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Old tree fell of at the waterside toe of the levee.					

No Photos

LM Start	4.90	Rating **	M	Issue No.	958
LM End	4.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.377718 °	38.377718 °
				-121.541413 °	-121.541413 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19283 DS_ID:22445 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - seems abandoned.- may need proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.2 feet below the crown. Gate valve on the landside (LS) end. (D. Conner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.99)]. FS Date: 8/23/2013					

Photo 1 of 3 : UCIP_SP_2018_19283_32565.jpg



WS view: steel pipe on levee slope and in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.90	Rating **	M	Issue No.	958 (cont)	
LM End	4.90	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.377718 °		38.377718 °
				-121.541413 °		-121.541413 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19283 DS_ID:22445 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - seems abandoned.- may need proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.2 feet below the crown. Gate valve on the landside (LS) end. (D. Conner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 4.99)]. FS Date: 8/23/2013						

Photo 2 of 3 : UCIP_SP_2018_19283_32564.jpg



LS view: abandoned pump set and concrete box on levee slope.

LM Start	4.90	Rating **	M	Issue No.	958 (cont)
LM End	4.90	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_19283_32563.jpg



LS view: abandoned pump and gate valve on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	4.91	Rating **	M	Issue No.	9
LM End	4.91	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.377761 °	38.377761 °
				-121.541319 °	-121.541319 °
DWR ID	DWR_RD0150_03_s_2012_9				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	4.99	Rating **	M	Issue No.	36
LM End	4.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.378771 °	38.378771 °
				-121.540538 °	-121.540538 °
DWR ID	DWR_RD0150_03_f_2012_36				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_36_20180301_00022.jpg



Updated picture of the slope instability of the waterside shoulder of the levee during fall 2015 inspection.

LM Start	4.99	Rating **	M	Issue No.	36 (cont)
LM End	4.99	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_RD0150_17_36_20180301_00023.jpg



Slope instability was found on the waterside of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.06	Rating **	A/W	Issue No.	959
LM End	5.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.379697 °	38.379697 °
				-121.540070 °	-121.540070 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49386
DS_ID:22446
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 5/2014 Recordation from permit files 13736 match photos and approximate location of UCIP confirmed crossing. 8/2013- a smaller pump on WS steel deck and was running.- seems 30-inch steel pipe goes through the levee.- GI electric conduit on WS and power pole on LS.
FIELD_STRUCT_DESC: 24-inch steel drainage discharge pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Pump and gate valve at the landside (LS) toe. (Plans to install a 24-inch discharge pipeline through the levee authorized under Permit No. 13736, 1983 - Reclamation District No. 150 [RD0150]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.15), 30-inch pipe referenced, invert elevation 14.5 feet below the crown].
FS Date: 8/23/2013

LM Start	5.06	Rating **	A/W	Issue No.	959 (cont)
LM End	5.06	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_49386_63902.jpg



WS view: pipe, steel deck, pressure tank, electric control box on stream bank.

Photo 2 of 3 : UCIP_SP_2018_49386_63901.jpg



WS view: a smaller pump on steel deck. It was working during the survey.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.06	Rating **	A/W	Issue No.	959 (cont)	
LM End	5.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.379697 °	38.379697 °	
				-121.540070 °	-121.540070 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:49386 DS_ID:22446 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2014 Recordation from permit files 13736 match photos and approximate location of UCIP confirmed crossing.8/2013- a smaller pump on WS steel deck and was running.- seems 30-inch steel pipe goes through the levee.- GI electric conduit on WS and power pole on LS. FIELD_STRUCT_DESC: 24-inch steel drainage discharge pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Pump and gate valve at the landside (LS) toe. (Plans to install a 24-inch discharge pipeline through the levee authorized under Permit No. 13736, 1983 - Reclamation District No. 150 [RD0150])). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.15), 30-inch pipe referenced, invert elevation 14.5 feet below the crown]. FS Date: 8/23/2013						

Photo 3 of 3 : UCIP_SP_2018_49386_63900.jpg



WS view: siphon breaker on pipe in steel deck on stream bank.

LM Start	5.09	Rating **	M	Issue No.	48
LM End	5.09	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.380110 °	38.380110 °
				-121.540061 °	-121.540061 °
DWR ID	DWR_RD0150_03_f_2015_48				
Comment Code					
ST : Stairway					
Inspector Comment					
Unpermitted stairway.					

Photo 1 of 1 : SP_2018_RD0150_17_48_20180301_00042.jpg



View of a stairway on the waterside of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.14	Rating **	M	Issue No.	941
LM End	5.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.380779 °	38.380779 °
				-121.540264 °	-121.540264 °
DWR ID	DWR_RD0150_03_s_2012_941				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road.					

Photo 1 of 1 : SP_2018_RD0150_17_941_20180301_00154.jpg



View of varying elevations in the crown of the levee at the transition from county road to access road.

LM Start	5.15	Rating **	A/W	Issue No.	111
LM End	5.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.380906 °	38.380928 °
				-121.540344 °	-121.540364 °
DWR ID	DWR_RD0150_03_f_2017_111				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 19 January 2017, two large trees were observed to have fallen into the water exposing the root ball on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.					
Site ID No:309					
Site Designation:LMA-135					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: 2 oak trees fell over at the WS toe and took root balls out of the lower slope about 5 ft deep just above the water line. Area of concern because damage is only on the lower slope near the water line.					

Photo 1 of 3 : LEVAL_SP_2018_309_2036.jpg



* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.15	Rating **	A/W	Issue No.	111 (cont)	
LM End	5.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.380906 °	38.380928 °	
				-121.540344 °	-121.540364 °	
DWR ID	DWR_RD0150_03_f _ 2017_111					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 19 January 2017, two large trees were observed to have fallen into the water exposing the root ball on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.						
Site ID No:309						
Site Designation:LMA-135						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: 2 oak trees fell over at the WS toe and took root balls out of the lower slope about 5 ft deep just above the water line. Area of concern because damage is only on the lower slope near the water line.						

Photo 2 of 3 : LEVAL_SP_2018_309_2038.jpg



Photo 3 of 3 : LEVAL_SP_2018_309_2039.jpg



LM Start	5.15	Rating **	A/W	Issue No.	111 (cont)
LM End	5.15	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.15	Rating **	A/W	Issue No.	72
LM End	5.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.380940 °	38.380940 °
				-121.540384 °	-121.540384 °
DWR ID	DWR_RD0150_03_f_2016_72				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree stump and broken tree was found on the waterside toe.					

Photo 1 of 1 : SP_2018_RD0150_17_72_20180301_00069.jpg



View of tree stump and broken tree on the waterside toe of the levee.
Fall 2016

LM Start	5.19	Rating **	M	Issue No.	125
LM End	5.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.381352 °	38.381352 °
				-121.540797 °	-121.540797 °
DWR ID	DWR_RD0150_03_s_2018_125				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	5.32	Rating **	M	Issue No.	96	
LM End	5.32	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.381843 °		38.381843 °
				-121.543117 °		-121.543117 °
DWR ID	DWR_RD0150_03_s_2016_96					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Broken tree/root damaged levee slope.						

Photo 1 of 1 : SP_2018_RD0150_17_96_20180301_00098.jpg



Broken tree roots and tree trunks were found on the waterside toe of the levee.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.40	Rating **	A/W	Issue No.	114
LM End	5.41	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.382169 °	38.382206 °
				-121.544597 °	-121.544731 °
DWR ID	DWR_RD0150_03_f _ 2017_114				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Cracking and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos.					
Site ID No:310					
Site Designation:LMA-136					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Large oak tree fell over here and took a root ball with it. At least 15 ft wide by 5ft deep soil missing, 5 ft from crown. Longitudinal cracks for 40 ft along crown hinge. Serious because prism is impacted and cracking is visible beyond the damaged area.					

Photo 1 of 3 : LEVAL_SP_2018_310_2188.jpg



LM Start	5.40	Rating **	A/W	Issue No.	114 (cont)
LM End	5.41	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_310_2190.jpg



* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

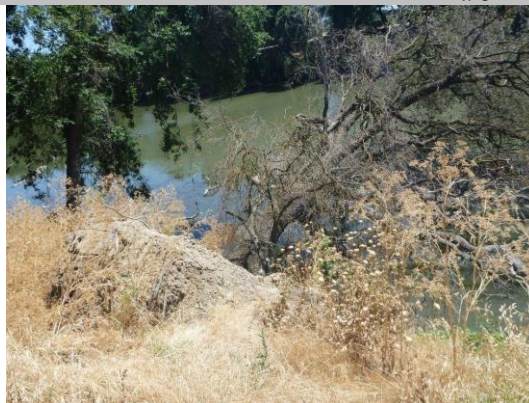
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.40	Rating **	A/W	Issue No.	114 (cont)	
LM End	5.41	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.382169 °		38.382206 °
				-121.544597 °		-121.544731 °
DWR ID	DWR_RD0150_03_f_2017_114					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Cracking and erosion were observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos.						
Site ID No:310						
Site Designation:LMA-136						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/17/2017						
Notes: Large oak tree fell over here and took a root ball with it. At least 15 ft wide by 5ft deep soil missing, 5 ft from crown. Longitudinal cracks for 40 ft along crown hinge. Serious because prism is impacted and cracking is visible beyond the damaged area.						

Photo 3 of 3 : LEVAL_SP_2018_310_2191.jpg



LM Start	5.49	Rating **	N	Issue No.	74
LM End	5.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383051 °	38.383051 °
				-121.545735 °	-121.545735 °
DWR ID	DWR_RD0150_03_f_2016_74				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Tree stump and broken tree was found on the waterside shoulder of the levee.					

Photo 1 of 1 : SP_2018_RD0150_17_74_20180301_00071.jpg



View of tree trunks on the waterside shoulder of the levee. Fall 2016

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.50	Rating **	M	Issue No.	12
LM End	5.50	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.383099 °	38.383099 °
				-121.545744 °	-121.545744 °
DWR ID	DWR_RD0150_03_s_2012_12				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_12_20180301_00003.jpg



Prunings were found on the landside of the levee looking upstream.

LM Start	5.50	Rating **	M	Issue No.	12 (cont)
LM End	5.50	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_RD0150_17_12_20180301_00004.jpg



Updated picture of pruning pile on the landside toe of the levee looking upstream during the fall 2013 inspection.

LM Start	5.56	Rating **	N	Issue No.	68
LM End	5.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383697 °	38.383697 °
				-121.545201 °	-121.545201 °
DWR ID	DWR_RD0150_03_s_2012_68				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_68_20180301_00066.jpg



Tree stump was found on the waterside of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.69	Rating **	N	Issue No.	41
LM End	5.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383969 °	38.383969 °
				-121.542806 °	-121.542806 °
DWR ID	DWR_RD0150_03_s_2012_41				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	5.70	Rating **	M	Issue No.	960	
LM End	5.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.383996 °		38.383996 °
				-121.542638 °		-121.542638 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28265 DS_ID:22448 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - levee toe cut out at open end of the pipe.- service pole and control box on river bank. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.8 feet below the crown. Pump and gate valve on a steel platform on the waterside (WS). (Plans for the installation of a vertical unit irrigation pumping plant and a 10-inch, 10-gauge steel discharge pipe through the levee authorized under Permit No. 1167, 1947 - Darrell Connor). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.80)]. FS Date: 8/23/2013						

Photo 1 of 3 : UCIP_SP_2018_28265_51974.jpg



WS view: walkway, pipe, pump and support deck on river bank.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.70	Rating **	M	Issue No.	960 (cont)	
LM End	5.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.383996	°	38.383996
				-121.542638	°	-121.542638
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:28265						
DS_ID:22448						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - levee toe cut out at open end of the pipe.- service pole and control box on river bank.						
FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, invert elevation 7.8 feet below the crown. Pump and gate valve on a steel platform on the waterside (WS). (Plans for the installation of a vertical unit irrigation pumping plant and a 10-inch, 10-gauge steel discharge pipe through the levee authorized under Permit No. 1167, 1947 - Darrell Connor). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 5.80)].						
FS Date: 8/23/2013						

Photo 2 of 3 : UCIP_SP_2018_28265_51973.jpg



WS view: electric control box and power pole.

LM Start	5.70	Rating **	M	Issue No.	960 (cont)
LM End	5.70	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_28265_51972.jpg



WS view: pipe. pump and gate valve on pump deck.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.71	Rating **	U	Issue No.	104
LM End	5.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.384026 °	38.384026 °
				-121.542455 °	-121.542455 °
DWR ID	DWR_RD0150_03_s_2017_104				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Fox hole					

Photo 1 of 1 : SP_2018_RD0150_17_104_20180301_00106.jpg



View of a rodent hole on the landside toe of the levee.

LM Start	5.73	Rating **	M	Issue No.	127
LM End	5.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.384061 °	38.384061 °
				-121.542169 °	-121.542169 °
DWR ID	DWR_RD0150_03_f_2017_127				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_127_20180301_00146.jpg



View of a rodent hole on the landside slope of the levee. Fall 2017

LM Start	5.78	Rating **	M	Issue No.	28
LM End	5.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.384333 °	38.384333 °
				-121.541310 °	-121.541310 °
DWR ID	DWR_RD0150_03_s_2012_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_28_20180301_00012.jpg



Wild growth was found on the waterside slope of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.79	Rating **	M	Issue No.	56
LM End	5.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384363 °	38.384796 °
				-121.541161 °	-121.540525 °
DWR ID	DWR_RD0150_03_s_2012_56				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_56_20180301_00052.jpg



View of fence around a horse pen along the shoulder of the levee and the landward slope.

LM Start	5.82	Rating **	M	Issue No.	57
LM End	5.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384648 °	38.384648 °
				-121.540669 °	-121.540669 °
DWR ID	DWR_RD0150_03_s_2012_57				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_57_20180301_00053.jpg



View of a tree trunk lying on the landward slope blocking visibility.

LM Start	5.83	Rating **	U	Issue No.	58
LM End	5.83	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384803 °	38.384803 °
				-121.540545 °	-121.540545 °
DWR ID	DWR_RD0150_03_s_2012_58				
Comment Code					
BU : Building					
Inspector Comment					
Permit 7517-A covers this area, but more research is needed.					

Photo 1 of 1 : SP_2018_RD0150_17_58_20180301_00054.jpg



Building & associated landscaping on levee crown.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.91	Rating **	M	Issue No.	21
LM End	5.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.385752 °	38.386703 °
				-121.539905 °	-121.540042 °
DWR ID	DWR_RD0150_03_s_2012_21				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_21_20180301_00008.jpg



Landscaping was found on the landside of the levee looking upstream.

LM Start	5.95	Rating **	M	Issue No.	961	
LM End	5.95	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.386402 °	38.386402 °	
				-121.539834 °	-121.539834 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19403 DS_ID:22451 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, invert elevation 2.5 feet below the crown. Pump and gate valve removed prior to October 1962. Steel plate welded to the waterside (WS) end. Power pole and two anchors on the landside (LS) slope. (Warren Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 6.06)]. FS Date: 8/23/2013						

Photo 1 of 3 : UCIP_SP_2018_19403_32942.jpg



WS view: open ended 6" steel pipe (top-left), 1" steel pipe (bottom), and another 6" steel pipe (right) on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	5.95	Rating **	M	Issue No.	961 (cont)	
LM End	5.95	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.386402 °	38.386402 °	
				-121.539834 °	-121.539834 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19403 DS_ID:22451 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, invert elevation 2.5 feet below the crown. Pump and gate valve removed prior to October 1962. Steel plate welded to the waterside (WS) end. Power pole and two anchors on the landside (LS) slope. (Warren Bogle). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 6.06)]. FS Date: 8/23/2013						

LM Start	5.95	Rating **	M	Issue No.	961 (cont)
LM End	5.95	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_19403_32941.jpg



WS view: Abandoned concrete box (top). Open ended 6" steel pipe, 1" steel pipe, and another 6" steel pipe on levee slope.

Photo 3 of 3 : UCIP_SP_2018_19403_32943.jpg



LS view: open end steel pipe on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.03	Rating **	C	Issue No.	23
LM End	6.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.387348 °	38.387348 °
				-121.540577 °	-121.540577 °
DWR ID	DWR_RD0150_03_s_2012_23				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.13	Rating **	U	Issue No.	24
LM End	6.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.388535 °	38.389391 °
				-121.541657 °	-121.541901 °
DWR ID	DWR_RD0150_03_s_2012_24				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_24_20180301_00009.jpg



Oleander on landward slope blocking view of levee.

LM Start	6.23	Rating **	N	Issue No.	49
LM End	6.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.389658 °	38.389658 °
				-121.541518 °	-121.541518 °
DWR ID	DWR_RD0150_03_s_2012_49				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_49_20180301_00043.jpg



View of tree stumps on the waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.23	Rating **	M	Issue No.	25
LM End	6.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.389700 °	38.389808 °
				-121.541462 °	-121.541285 °
DWR ID	DWR_RD0150_03_s_2012_25				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.25	Rating **	M	Issue No.	99
LM End	6.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.389857 °	38.389857 °
				-121.541193 °	-121.541193 °
DWR ID	DWR_RD0150_03_s_2016_99				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Newly planted tree on the landside slope of the levee.					

Photo 1 of 1 : SP_2018_RD0150_17_99_20180301_00103.jpg



View of newly planted tree on the landside slope of the levee.

LM Start	6.25	Rating **	U	Issue No.	26
LM End	6.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.389858 °	38.390115 °
				-121.541155 °	-121.540657 °
DWR ID	DWR_RD0150_03_s_2012_26				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_26_20180301_00010.jpg



Landscaping on landward slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.26	Rating **	C	Issue No.	105
LM End	6.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.389935 °	38.389935 °
				-121.541065 °	-121.541065 °
DWR ID	DWR_RD0150_03_s_2017_105				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Cracks and depression on the waterside shoulder.					

No Photos

LM Start	6.39	Rating **	C	Issue No.	118
LM End	6.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.391054 °	38.392250 °
				-121.539214 °	-121.538138 °
DWR ID	DWR_RD0150_03_f_2017_118				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:210					
Site Designation:386-32					
Repair Type: Erosion					
Rating:Critical					
Field Date:6/7/2017					
Notes: erosion undercutting the waterside levee slope, site length changed to 530', paved levee crown road, at critical location erosion encroached into levee crown hinge					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.45	Rating **	M	Issue No.	60
LM End	6.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.391616 °	38.391616 °
				-121.538378 °	-121.538378 °
DWR ID	DWR_RD0150_03_s_2012_60				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_60_20180301_00056.jpg



View of landscaping along the landward slope.

LM Start	6.52	Rating **	M	Issue No.	83
LM End	6.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.392580 °	38.392580 °
				-121.538059 °	-121.538059 °
DWR ID	DWR_RD0150_03_f_2014_83				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_83_20180301_00083.jpg



Prunings were found on the landside toe of the levee looking upstream.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 0150 Merrit Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.63	Rating **	M	Issue No.	962 (cont)	
LM End	6.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.394182 °	38.394182 °	
				-121.538609 °	-121.538609 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42692 DS_ID:22457 EP_NO: 14650 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Diesel powered slant pump on the waterside (WS). Concrete distribution box on the landside (LS) toe. (Plans to install a slant mounted pump on the WS of the levee with a 12-inch discharge pipe through the levee authorized under Permit No. 14650, 1987 - Webber Farms). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/23/2013						

Photo 3 of 3 : UCIP_SP_2018_42692_35080.jpg



WS view: air vent on steel pipe.

LM Start	6.78	Rating **	U	Issue No.	30
LM End	6.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395791 °	38.395869 °
				-121.537399 °	-121.537101 °
DWR ID	DWR_RD0150_03_s_2012_30				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_30_20180301_00013.jpg



Landscaping on landward slope blocking view from LM 6.87 to 6.95

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.79	Rating **	A/W	Issue No.	119
LM End	6.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.395833 °	38.395850 °
				-121.537150 °	-121.537083 °
DWR ID	DWR_RD0150_03_f_2017_119				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 10 February 2017, instability, cracking, and sloughing of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 20 feet long. See attached pages for photos.					
Site ID No:312					
Site Designation:LMA-139					
Repair Type: Stability					
Rating:Critical					
Field Date:7/19/2017					
Notes: Crown is paved. Serious because erosion cuts into prism significantly, but not into crown. Worst damage is above a fallen tree, sloughing comes within 6 ft of crown here.					

Photo 1 of 3 : LEVAL_SP_2018_312_2310.jpg



LM Start	6.79	Rating **	A/W	Issue No.	119 (cont)
LM End	6.80	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_SP_2018_312_2312.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

Photo 3 of 3 : LEVAL_SP_2018_2314.jpg

A photograph of a stream flowing through a wooded area. The stream is surrounded by dense green vegetation and trees. A large, fallen tree trunk lies across the stream, partially submerged. The water is clear, reflecting the surrounding greenery. The foreground shows a dirt path leading towards the stream.

Photo 1 of 1 : SP_2018_RD0150_17_107_20180301_00108.jpg



03/28/2017

View of an erosion on the waterside slope of the levee.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.82	Rating **	M	Issue No.	13
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.395998 °	38.395470 °
				-121.536613 °	°
DWR ID	DWR_RD0150_03_s_2012_13				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_13_20180301_00005.jpg



Fence was found on the landside of the levee looking downstream.

LM Start	6.85	Rating **	U	Issue No.	933
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.396187 °	38.396989 °
				-121.536180 °	-121.535151 °
DWR ID	DWR_RD0150_03_s_2012_933				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping has been maintained better, but some obstructions still exist.					

Photo 1 of 1 : SP_2018_RD0150_17_933_20180301_00149.jpg



View of the landscape on the landside shoulder of the levee looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.86	Rating **	M	Issue No.	120
LM End	6.87	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.396233 °	38.396294 °
				-121.536064 °	-121.535947 °
DWR ID	DWR_RD0150_03_f_2017_120				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:On 10 February 2017, instability, cracking, and sloughing of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos.					
Site ID No:313					
Site Designation:LMA-140					
Repair Type: Stability					
Rating:Critical					
Field Date:7/19/2017					
Notes: Crown is a paved road. Serious because of extensive cracking up to hinge, high traffic volume due to nearby winery and lower 2/3 - 1/2 of slope is near vertical.					

Photo 1 of 3 : LEVAL_SP_2018_313_2316.jpg



Photo 2 of 3 : LEVAL_SP_2018_313_2318.jpg



LM Start	6.86	Rating **	M	Issue No.	120 (cont)
LM End	6.87	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

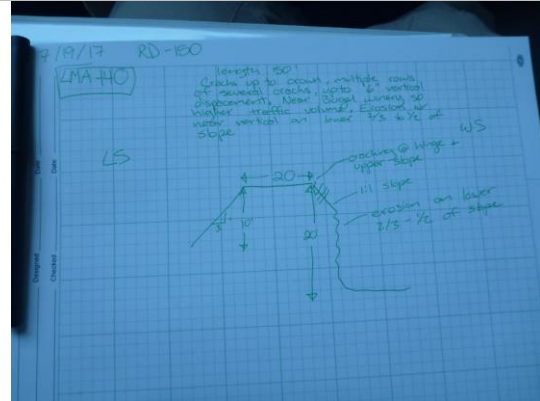
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.86	Rating **	M	Issue No.	120 (cont)	
LM End	6.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.396233 °	38.396294 °	
				-121.536064 °	-121.535947 °	
DWR ID	DWR_RD0150_03_f_2017_120					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:On 10 February 2017, instability, cracking, and sloughing of the waterside levee slope were observed on the east (left) bank of Elk Slough. The site is approximately 40 feet long. See attached pages for photos.						
Site ID No:313						
Site Designation:LMA-140						
Repair Type: Stability						
Rating:Critical						
Field Date:7/19/2017						
Notes: Crown is a paved road. Serious because of extensive cracking up to hinge, high traffic volume due to nearby winery and lower 2/3 - 1/2 of slope is near vertical.						

Photo 3 of 3 : LEVAL_SP_2018_313_2321.jpg



LM Start	6.90	Rating **	M	Issue No.	61
LM End	6.90	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.396655 °	38.396655 °
				-121.535485 °	-121.535485 °
DWR ID	DWR_RD0150_03_s_2012_61				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_61_20180301_00057.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.95	Rating **	A/W	Issue No.	121
LM End	6.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.397197°	38.397225°
				-121.535089°	-121.535092°
DWR ID	DWR_RD0150_03 f _ 2017_121				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.

Site ID No: 314

Site Designation: LMA-141

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/19/2017

Notes: Area of concern because the site is so small and only looks slightly worse than the surrounding levee slope. Crown is a paved road.

LM Start	6.95	Rating **	A/W	Issue No.	121 (cont)
LM End	6.95	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_SP_2018_314_2322.jpg



Photo 2 of 3 : LEVAL_SP_2018_314_2323.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

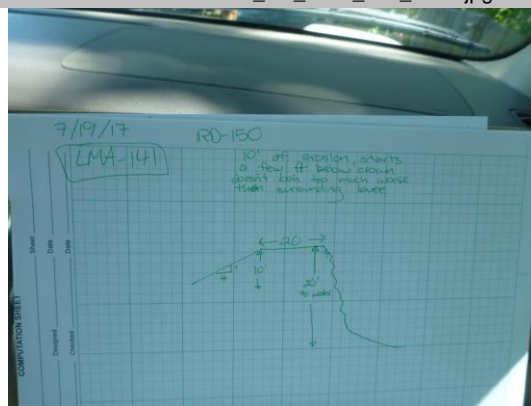
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	6.95	Rating **	A/W	Issue No.	121 (cont)
LM End	6.95	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.397197°	38.397225°	
			-121.535089°	-121.535092°	
DWR ID	DWR_RD0150_03_f_2017_121				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.</p> <p>Site ID No: 314</p> <p>Site Designation: LMA-141</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/19/2017</p> <p>Notes: Area of concern because the site is so small and only looks slightly worse than the surrounding levee slope. Crown is a paved road.</p>					

Photo 3 of 3 : LEVAL_SP_2018_314_2324.jpg



LM Start	7.26	Rating **	U	Issue No.	64
LM End	7.26	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.401481°	38.401481°	
			-121.536876°	-121.536876°	
DWR ID	DWR_RD0150_03_s_2012_64				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_64_20180301_00061.jpg



Landscaping on the waterside of the levee. The picture was taken from the crown looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	7.29	Rating **	U	Issue No.	32
LM End	7.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.401738 °	38.402296 °
				-121.537127 °	-121.537678 °
DWR ID	DWR_RD0150_03_s_2012_32				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_32_20180301_00015.jpg



Vegetation on the landside of the levee looking upstream. This picture was taken during spring 2012 inspection.

LM Start	7.29	Rating **	U	Issue No.	32 (cont)
LM End	7.34	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_RD0150_17_32_20180301_00016.jpg



Landscaping on landward slope blocking view from LM 7.42 to 7.47

LM Start	7.38	Rating **	C	Issue No.	63
LM End	7.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.402779 °	38.402779 °
				-121.538197 °	-121.538197 °
DWR ID	DWR_RD0150_03_s_2012_63				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	7.40	Rating **	M	Issue No.	84
LM End	7.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403047 °	38.403047 °
				-121.538433 °	-121.538433 °
DWR ID	DWR_RD0150_03_s_2012_84				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_84_20180301_00084.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

LM Start	7.44	Rating **	U	Issue No.	934
LM End	7.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403566 °	38.403566 °
				-121.538886 °	-121.538886 °
DWR ID	DWR_RD0150_03_s_2012_934				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_934_20180301_00150.jpg



Landscaping was blocking the visibility on the landside of the levee looking downstream.

LM Start	7.47	Rating **	M	Issue No.	935
LM End	7.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.403795 °	38.403795 °
				-121.539205 °	-121.539205 °
DWR ID	DWR_RD0150_03_s_2012_935				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_935_20180301_00151.jpg



Prunings were found on the landside of the levee looking upstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	7.47	Rating **	M	Issue No.	935 (cont)	
LM End	7.47	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.403795 °	38.403795 °	
				-121.539205 °	-121.539205 °	
DWR ID	DWR_RD0150_03_s_2012_935					
Comment Code						
PR : Prunings						
Inspector Comment						

Photo 2 of 2 : SP_2018_RD0150_17_935_20180301_00152.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2011 inspection.

LM Start	7.48	Rating **	M	Issue No.	16
LM End	7.48	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403902 °	38.403902 °
				-121.539299 °	-121.539299 °
DWR ID	DWR_RD0150_03_s_2012_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_16_20180301_00006.jpg



Equipment and buiding was found on the landside of the levee looking upstream.

LM Start	7.70	Rating **	M	Issue No.	52
LM End	7.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.405536 °	38.405536 °
				-121.542752 °	-121.542752 °
DWR ID	DWR_RD0150_03_f_2015_52				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree trunks and stumps might damage the levee toe during high water.					

Photo 1 of 1 : SP_2018_RD0150_17_52_20180301_00046.jpg



View of the tree trunk on the waterside toe of the levee.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	7.73	Rating **	M	Issue No.	112
LM End	7.73	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.405949 °	38.405949 °
				-121.542996 °	-121.542996 °
DWR ID	DWR_RD0150_03_s_2017_112				
Comment Code					
FW : Firewood					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_112_20180301_00120.jpg



View of firewoods on the waterside shoulder of the levee looking upstream.

LM Start	7.74	Rating **	M	Issue No.	396
LM End	7.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.406098 °	38.406098 °
				-121.543028 °	-121.543028 °
DWR ID	DWR_RD0150_03_s_2015_396				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope instability caused by a tree.					

Photo 1 of 1 : SP_2018_RD0150_17_396_20180301_00148.jpg



Slope instability was found on the waterside toe of the levee looking upstream.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	7.75	Rating **	N	Issue No.	129
LM End	7.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.406298 °	38.406298 °
				-121.542939 °	-121.542939 °
DWR ID	DWR_RD0150_03_f_2017_129				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Fallen tree on the waterside shoulder of the levee.					

Photo 1 of 1 : SP_2018_RD0150_17_129_20180301_00147.jpg



View of a tree stump on the waterside shoulder of the levee.

LM Start	7.78	Rating **	M	Issue No.	117
LM End	7.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.406645 °	38.406645 °
				-121.542835 °	-121.542835 °
DWR ID	DWR_RD0150_03_s_2017_117				
Comment Code					
FW : Firewood					
Inspector Comment					

No Photos

LM Start	8.02	Rating **	M	Issue No.	92
LM End	8.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.409130 °	38.409130 °
				-121.539971 °	-121.539971 °
DWR ID	DWR_RD0150_03_s_2014_92				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_92_20180301_00093.jpg



Updated picture of the slope instability on the waterside of the levee looking upstream during spring 2015 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.02	Rating **	M	Issue No.	92 (cont)	
LM End	8.02	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.409130 °		38.409130 °
				-121.539971 °		-121.539971 °
DWR ID	DWR_RD0150_03_s_2014_92					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						

Photo 2 of 2 : SP_2018_RD0150_17_92_20180301_00094.jpg



A slope instability was found on the waterside of the levee looking downstream.

LM Start	8.05	Rating **	A/W	Issue No.	122
LM End	8.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.409228 °	38.409233 °
				-121.539389 °	-121.539356 °
DWR ID	DWR_RD0150_03_f_2017_122				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.					
Site ID No:315					
Site Designation:LMA-142					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: The erosion extends along most of the slope. Nearby WS banks are all very steep (1:1 or less). Serious because the erosion extend along the entire slope, but not into the crown.					

Photo 1 of 3 : LEVAL_SP_2018_315_2183.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

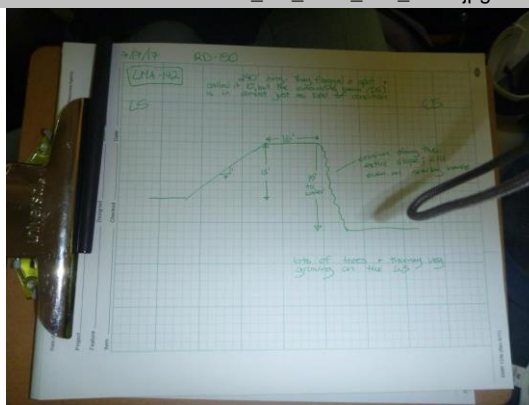
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.05	Rating **	A/W	Issue No.	122 (cont)							
LM End	8.05	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.409228°	38.409233°								
			-121.539389°	-121.539356°								
DWR ID	DWR_RD0150_03_f_2017_122											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long and progresses up to the levee crown. See attached pages for photos.</p> <p>Site ID No: 315</p> <p>Site Designation: LMA-142</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 7/17/2017</p> <p>Notes: The erosion extends along most of the slope. Nearby WS banks are all very steep (1:1 or less). Serious because the erosion extends along the entire slope, but not into the crown.</p>												

Photo 2 of 3 : LEVAL_SP_2018_315_2186.jpg



Photo 3 of 3 : LEVAL_SP_2018_315_2187.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.05	Rating **	M	Issue No.	82
LM End	8.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.409224 °	38.409224 °
				-121.539350 °	-121.539350 °
DWR ID	DWR_RD0150_03_f_2013_82				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_82_20180301_00082.jpg



Prunings were found on the landside toe of the levee looking upstream.

LM Start	8.20	Rating **	U	Issue No.	963	
LM End	8.20	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.408619 °	38.408619 °	
				-121.536768 °	-121.536768 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50670 DS_ID:22466 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/08/2016: Needs proper abandonment. Levee caved in below pipe at gate valve on WS. Discussed abandonment with Warren Bogle of Colby Ranch. (K. Fazel - UCIP)08/23/2013: Needs proper abandonment (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 13.8 feet below the crown. Gate valve on the waterside (WS) slope. Pilings in the stream, but no pump was found. Service pole with guy wire on the landside (LS) slope. Standpipe on the LS slope. (A. Colby). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.34)]. FS Date: 7/7/2016						

Photo 1 of 3 : UCIP_SP_2018_50670_33627.jpg



WS view: pipe visible on levee slope and in the stream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.20	Rating **	U	Issue No.	963 (cont)	
LM End	8.20	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.408619 °	38.408619 °	
				-121.536768 °	-121.536768 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50670 DS_ID:22466 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/08/2016: Needs proper abandonment. Levee caved in below pipe at gate valve on WS. Discussed abandonment with Warren Bogle of Colby Ranch. (K. Fazel - UCIP)08/23/2013: Needs proper abandonment (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe through the levee, invert elevation 13.8 feet below the crown. Gate valve on the waterside (WS) slope. Pilings in the stream, but no pump was found. Service pole with guy wire on the landside (LS) slope. Standpipe on the LS slope. (A. Colby). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.34)]. FS Date: 7/7/2016						

LM Start	8.20	Rating **	U	Issue No.	963 (cont)
LM End	8.20	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_50670_33626.jpg



WS view: abandoned gate valve found on levee slope.

Photo 3 of 3 : UCIP_SP_2018_50670_33625.jpg



LS view: no pipe and structure found on landside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.26	Rating **	M	Issue No.	65
LM End	8.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.408213 °	38.408213 °
				-121.535911 °	-121.535911 °
DWR ID	DWR_RD0150_03_f_2015_65				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_65_20180301_00062.jpg



View of erosion on the waterside of the levee.

LM Start	8.31	Rating **	M	Issue No.	66
LM End	8.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407960 °	38.407960 °
				-121.534898 °	-121.534898 °
DWR ID	DWR_RD0150_03_s_2012_66				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_66_20180301_00063.jpg



Updated picture of the erosion on the waterside of the levee.

LM Start	8.33	Rating **	M	Issue No.	67
LM End	8.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407958 °	38.407958 °
				-121.534583 °	-121.534583 °
DWR ID	DWR_RD0150_03_s_2012_67				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_67_20180301_00064.jpg



Updated picture of the erosion on the waterside shoulder looking upstream during spring 2014 inspection.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.33	Rating **	M	Issue No.	67 (cont)	
LM End	8.33	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.407958 °		38.407958 °
				-121.534583 °		-121.534583 °
DWR ID	DWR_RD0150_03_s_2012_67					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						

Photo 2 of 2 : SP_2018_RD0150_17_67_20180301_00065.jpg



Erosion was found on the waterside shoulder of the levee looking upstream. This picture was taken during fall 2012 inspection.

LM Start	8.35	Rating **	A/W	Issue No.	123
LM End	8.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.407983 °	38.407992 °
				-121.534322 °	-121.534289 °
DWR ID	DWR_RD0150_03_f_2017_123				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.					
Site ID No:316					
Site Designation:LMA-143					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: 3 large trees in/ajacent to site including a fallen tree in the middle of the erosion. Erosion on almost the whole slope, but doesn?t cut into the crown. Serious because erosion cuts into levee significantly here.					

Photo 1 of 3 : LEVAL_SP_2018_316_2180.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

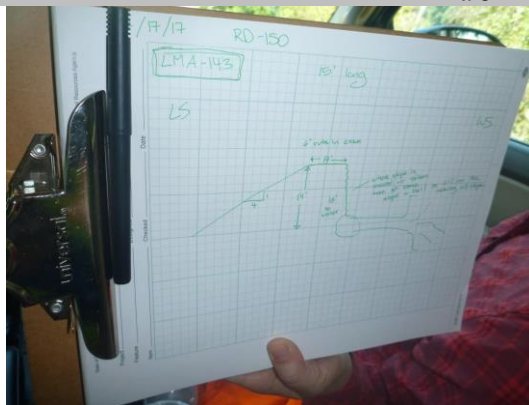
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.35	Rating **	A/W	Issue No.	123 (cont)
LM End	8.35	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.407983 °	38.407992 °	
			-121.534322 °	-121.534289 °	
DWR ID	DWR_RD0150_03_f_2017_123				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Erosion was observed on the waterside levee slope on the east (left) bank of Elk Slough. The site is approximately 10 feet long. See attached pages for photos.</p> <p>Site ID No: 316</p> <p>Site Designation: LMA-143</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 7/17/2017</p> <p>Notes: 3 large trees in/adjacent to site including a fallen tree in the middle of the erosion. Erosion on almost the whole slope, but doesn't cut into the crown. Serious because erosion cuts into levee significantly here.</p>					

Photo 2 of 3 : LEVAL_SP_2018_316_2181.jpg



Photo 3 of 3 : LEVAL_SP_2018_316_2182.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.37	Rating **	M	Issue No.	88
LM End	8.37	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408155 °	38.408155 °
				-121.533982 °	-121.533982 °
DWR ID	DWR_RD0150_03_s_2012_88				
Comment Code					
PO : Pole					
Inspector Comment					

No Photos

LM Start	8.37	Rating **	U	Issue No.	89
LM End	8.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.408153 °	38.408153 °
				-121.533980 °	-121.533980 °
DWR ID	DWR_RD0150_03_s_2012_89				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD0150_17_89_20180301_00087.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee during spring 2015 inspection.

LM Start	8.37	Rating **	U	Issue No.	89 (cont)
LM End	8.37	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_RD0150_17_89_20180301_00088.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee during fall 2014 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.37	Rating **	M	Issue No.	964
LM End	8.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.408188 °	38.408188 °
				-121.533935 °	-121.533935 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41648 DS_ID:22467 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - walkway in poor functional condition- an abandoned 8-inch steel pipe next to 12" pipe. This 8" pipe might have merged with 12" pipe under the levee .- Pipe and pump inside concrete masonry wall. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, invert elevation 13 feet below the crown. Pump and gate valve in a pump house on the waterside (WS) slope. Concrete distribution box at the landside (LS) toe. Service pole on the WS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957, (HLM 8.51)]. FS Date: 8/23/2013					

Photo 1 of 3 : UCIP_SP_2018_41648_33642.jpg



WS view: walkway and inlet pipe on levee slope.

LM Start	8.37	Rating **	M	Issue No.	964 (cont)
LM End	8.37	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_41648_33641.jpg



WS view: pump, gate valve, and airvent on pipe inside concrete masonry box.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.46	Rating **	N	Issue No.	90
LM End	8.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409220 °	38.409220 °
				-121.532801 °	-121.532801 °
DWR ID	DWR_RD0150_03_s_2012_90				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_90_20180301_00089.jpg



A tree stump was found on the landside of the levee looking upstream.

LM Start	8.50	Rating **	N	Issue No.	55
LM End	8.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409559 °	38.409559 °
				-121.532356 °	-121.532356 °
DWR ID	DWR_RD0150_03_s_2012_55				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_55_20180301_00051.jpg



A tree stump was found on the waterside of the levee looking upstream.

LM Start	8.72	Rating **	M	Issue No.	7
LM End	8.72	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.411593 °	38.411593 °
				-121.529143 °	-121.529143 °
DWR ID	DWR_RD0150_03_s_2012_7				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_7_20180301_00001.jpg



Broken concrete pipe was left on the waterside slope of the levee. The picture was taken from the crown looking upstream.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	8.95	Rating **	U	Issue No.	128
LM End	8.95	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.414831 °	38.414831 °
				-121.528982 °	-121.528982 °
DWR ID	DWR_RD0150_03_s_2018_128				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree blocking crown access.					

Photo 1 of 1 : SP_2018_RD0150_17_128_20180430_00201.jpg



Downed tree blocking crown looking north.

LM Start	9.21	Rating **	N	Issue No.	59
LM End	9.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.413268 °	38.413268 °
				-121.525929 °	-121.525929 °
DWR ID	DWR_RD0150_03_s_2012_59				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_59_20180301_00055.jpg



A tree stump was found on the waterside of the levee looking upstream.

LM Start	9.35	Rating **	U	Issue No.	73
LM End	9.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.413169 °	38.413169 °
				-121.523707 °	-121.523707 °
DWR ID	DWR_RD0150_03_s_2012_73				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_73_20180301_00070.jpg



Thin/trim trees to allow for visibility of top 20' of waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	04/26/2018 04/27/2018	Dave Torres

LM Start	9.39	Rating **	M	Issue No.	950
LM End	9.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.413560 °	38.413560 °
				-121.522936 °	-121.522936 °
DWR ID	DWR_RD0150_03_s_2012_950				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0150_17_950_20180301_00155.jpg



Equipment was found on the landside of the levee looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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